

## AibGenesis™ Mouse Anti-Rgr Antibody (CBMOAB-29419FYA)

Cat. No.: CBMOAB-29419FYA

### Specifications

|                              |                                                                                 |
|------------------------------|---------------------------------------------------------------------------------|
| <b>Host species</b>          | Mouse ( <i>Mus musculus</i> )                                                   |
| <b>Clone</b>                 | MO29419FYA                                                                      |
| <b>Specificity</b>           | This antibody binds to fruit fly Rgr.                                           |
| <b>Format</b>                | Liquid or Lyophilized                                                           |
| <b>Storage</b>               | Store at 4°C: short-term (1-2weeks)<br>Store at -20°C: long-term and future use |
| <b>Purity</b>                | > 90% was determined by SDS-PAGE                                                |
| <b>Purification</b>          | Purified with Protein A or G affinity chromatography                            |
| <b>Cellular Localization</b> | Nucleus                                                                         |

### Application-Information

|                          |                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, ELISA                                                                                                                  |
| <b>Application Notes</b> | ELISA: 1:1000-1:3000<br>Other applications are to be developed. The optimal dilution should be determined by the end user. |

### Target

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Introduction</b> | This gene encodes a putative retinal G-protein coupled receptor. The gene is a member of the opsin subfamily of the 7 transmembrane, G-protein coupled receptor 1 family. Like other opsins which bind retinaldehyde, it contains a conserved lysine residue in the seventh transmembrane domain. The protein acts as a photoisomerase to catalyze the conversion of all-trans-retinal to 11-cis-retinal. The reverse isomerization occurs with rhodopsin in retinal photoreceptor cells. The protein is exclusively expressed in tissue adjacent to retinal photoreceptor cells, the retinal pigment epithelium and Mueller cells. This gene may be associated with autosomal recessive and autosomal dominant retinitis pigmentosa (arRP and adRP, respectively). Alternative splicing results in multiple transcript variants encoding different isoforms. (From NCBI) |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Product Overview

Mouse Anti-D. melanogaster Rgr Antibody is a mouse antibody against Rgr. It can be used for Rgr detection in Western Blot, Enzyme-Linked Immunosorbent Assay.

Protein Refseq

The length of the protein is 856 amino acids long.  
The sequence is show below: MMPLQESPSPSWQLEDYAFFRKCGEITVSPDVQSFGFNCAFCPAICLQFSV FMDHIRVQH TQDVSRRYETEEERCPQTDLVIMELDCPEIYPPEAPRKCSWEADMDIQLMSLVSPPAVH IA PLPPPKTETETPEIDLVIYVENPLPPSPPPSADISVDELPGSSPQSFDLDPFAVLHEVV TMTPTPIAPPPGPP TPNPPTATPAPLPRYETRRVAMQRKLRQSQNEQPKDGAVDEVAV EEHKGTEPTGQPEKSAMELTTPATP PTPLPPTSPTSSTASCADFQSKSRRELERNHEFVG CLLREYERTEKLWNPRHPDYKYNARSAYGDLAGP LESICHRQLSGAEIFAVLKELRCRY RRELKKVNALGGKYKSRLWYFERMDFLRCVIENRRAEREAKISNEST ESEKSCETDADSC GKSSLYHEVLFSILDAFKRQECLWNPQHYYDTTCCKTELFRDISVQLQEELNYELSGE EC CNEIQKLRTTRYRKELRMVIKHKGLYLPKLWCYDEMEFLQPILQEIQIFNKISKKIGVVGSN QKTKFIDASSI RFDNTEKQLQFVEIYHNYSALWDVDHPDFRSNTYRSQALGQMLDEINTT FHTSYTAEQLEKTLFNLRKEFS AQKRKILTESEDSSSIPLHAKLAEFLDQNLGPFRCDI CSDLVKTCQDYKVHRSADHGTQPFICTLCGKGFGQ MPCNLTVHIRRHRRDFPYSCQCDKR FATSTEVAIHLRHTHTGERPYICDLGKSFKTWSFFDIHRRRHLNQ STFHCPICAKGFYEK NRFTDHMNSHWAIRKHLCTVCGKTFTTYGNLKKHTELHLAVKKYKCGTCGKRFAQ FASLR WHKKREHSSVGQAGGK.

| Sub Cat          | Clonalit Species Reactivit Applicatio |                                  |           | Clone       | Conjugate                                                                   | Size   |
|------------------|---------------------------------------|----------------------------------|-----------|-------------|-----------------------------------------------------------------------------|--------|
|                  | y                                     | y                                | n         |             |                                                                             |        |
| CBMOAB-56407 FYA | Monoclon al                           | Rhesus ( <i>Macaca mulatta</i> ) | WB, ELISA | MO56407F YA | Unconjugated; also available for Biotin; HRP; FITC and othe r labeled form. | 100 μg |

Protein Refseq: The length of the protein is 120 amino acids long.  
The sequence is show below: MAETSALPTGFGELEVLAVGMVLLVEDPGAADSLPPAGAELGSCGQWDQPECPHC SHIQPSPCLPQALALRLGR LPGSRLPGLCDSVGQH LQQCSYRLGALSPLLHPPKCFHRSHHFEWQ.

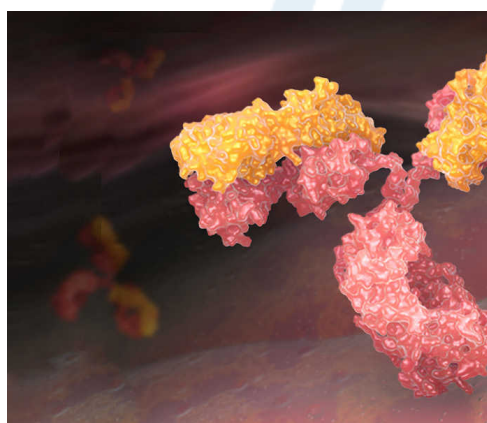
|              |             |                                  |           |          |                                                                             |        |
|--------------|-------------|----------------------------------|-----------|----------|-----------------------------------------------------------------------------|--------|
| MO-AB-05631W | Monoclon al | Rhesus ( <i>Macaca mulatta</i> ) | WB, ELISA | MO05631W | Unconjugated; also available for Biotin; HRP; FITC and othe r labeled form. | 100 μg |
|--------------|-------------|----------------------------------|-----------|----------|-----------------------------------------------------------------------------|--------|

Protein Refseq: The length of the protein is 113 amino acids long.  
The sequence is show below: MAETSALPTGFGELEVLAVGMGLLVEALSGLSLNTLTIFSFKTPELRTPCHLLVLSLALADSGISLNALIAATSSLLR RWPYGS DGCQA HGFQGFVTALASICSSAAIAWGR.

|              |             |                                |           |          |                                                                             |        |
|--------------|-------------|--------------------------------|-----------|----------|-----------------------------------------------------------------------------|--------|
| MO-AB-07079H | Monoclon al | Frog ( <i>Xenopus laevis</i> ) | WB, ELISA | MO07079C | Unconjugated; also available for Biotin; HRP; FITC and othe r labeled form. | 100 μg |
|--------------|-------------|--------------------------------|-----------|----------|-----------------------------------------------------------------------------|--------|

Protein Refseq: The length of the protein is 295 amino acids long.  
The sequence is show below: MVTSYLPEGFTETEVFAIGTTLIEALLGLLNGLTLLSFYKIRELRTPSNLFIISLAVADTGLCLNAFVAAFSSFLRY WPYGSEGCQI HGFQGFVAALSSIGSCAAIAWDYRHQYCTRSKLHWGTAVSMVLFVWGFSAFWSAMPLFGWGEYDYELR TCCTLDYSKGDRN FTSFLFTM AFFEFLVPVFILLTAYQSIYQMKMKSGQIRLNTSMPVKSLVFCWGPYCLLCFYAVIQDATILSPKLRMMPALLAKISPAVNAYVYGLGNE NYRGGIWLYLTGQKLEKAETDSRTK.

| Sub Cat                                                                                                                                                                                                                                                                                                                                                                                                           | Clonalit   | Species                         | Reactivit | Applicatio | Clone                                                                      | Conjugate | Size |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------|-----------|------------|----------------------------------------------------------------------------|-----------|------|
|                                                                                                                                                                                                                                                                                                                                                                                                                   | y          | y                               |           | n          |                                                                            |           |      |
| MO-AB-19231R                                                                                                                                                                                                                                                                                                                                                                                                      | Monoclonal | Cattle ( <i>Bos taurus</i> )    | WB, ELISA | MO19231R   | Unconjugated; also available for Biotin; HRP; FITC and other labeled form. | 100 µg    |      |
| <b>Protein Refseq:</b> The length of the protein is 291 amino acids long.<br>The sequence is show below: MAESGTLPTGFGELEVLAVGTVLLVEALSGLSLNILTILSFCKTPELRTPSHLLVLSLALADSGISLNALVAATSSLLRRWYPGSEGCQA HGFQGFVTALASICSSAAVAWGGRYHHFCTRSRLDWNTAVSLVFFVWLSSAFWAALPLLGWGHYDYEPLGTCCTLDYSRGDRNFTSFLFTM AFFNLLPLFITVVSRYRLMEQKLGKTSRPPVNTVLPARTLLLGWGPYALLYLYATIADATSISPKLQMPALIAK.                                       |            |                                 |           |            |                                                                            |           |      |
| MO-AB-46331W                                                                                                                                                                                                                                                                                                                                                                                                      | Monoclonal | Horse ( <i>Equus caballus</i> ) | WB, ELISA | MO46331W   | Unconjugated; also available for Biotin; HRP; FITC and other labeled form. | 100 µg    |      |
| <b>Protein Refseq:</b> The length of the protein is 23 amino acids long.<br>The sequence is show below: LSSTFWAALPLLGWGHYDYEPLG.                                                                                                                                                                                                                                                                                  |            |                                 |           |            |                                                                            |           |      |
| MO-AB-63247W                                                                                                                                                                                                                                                                                                                                                                                                      | Monoclonal | Marmoset                        | WB, ELISA | MO63247W   | Unconjugated; also available for Biotin; HRP; FITC and other labeled form. | 100 µg    |      |
| <b>Protein Refseq:</b> The length of the protein is 291 amino acids long.<br>The sequence is show below: MAESSTLPTGFGELEVLAVGMVLLVEALSGLSLNSLTIFSFCKTPELRTPCHLLVLSLALADSGISLNALLAATSSLLRRWPYGS DGCQI HGFQGFVTALASICGSAAIAWGGRYHHYCTRSQLAWNSAISLVLFVWLSSTFWAAFPLLGWGHYDYEPLGTCCTLDYSKGDRNFTSFLFTM SFFNFAMPLFITITSYRLMEQKLGKSGHLQVNTTLPARTLLLGWGPYAILYLYAVIADVTSISPKLQMPALIAKMVPTINAINYALGNE MICRGIWQCLSPQKSEKDRTK. |            |                                 |           |            |                                                                            |           |      |



## AibGenesis™

is an advanced AI-driven platform designed to create novel antibody sequences with unprecedented speed and precision. By integrating deep learning, structure prediction, and comprehensive immunological datasets, **AibGenesis™** intelligently designs antibodies optimized for affinity, stability, and developability. The platform generates antibody products that support basic scientific research, drug development, and diagnostic applications.