

## AibGenesis™ Mouse Anti-Btd Antibody (CBMOAB-02754FYA)

Cat. No.: CBMOAB-02754FYA

### Specifications

|                              |                                                                                 |
|------------------------------|---------------------------------------------------------------------------------|
| <b>Host species</b>          | Mouse ( <i>Mus musculus</i> )                                                   |
| <b>Clone</b>                 | MO02754FYA                                                                      |
| <b>Specificity</b>           | This antibody binds to fruit fly Btd.                                           |
| <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> | The protein encoded by this gene functions to recycle protein-bound biotin by cleaving biocytin (biotin-epsilon on-lysine), a normal product of carboxylase degradation, resulting in regeneration of free biotin. The encoded protein has also been shown to have biotinyl transferase activity. Mutations in this gene are associated with biotinidase deficiency. Multiple transcript variants encoding different isoforms have been described. (From NCBI) |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                         |                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Mouse Anti-D. melanogaster Btd Antibody is a mouse antibody against Btd. It can be used for Btd detection in Western Blot, Enzyme-Linked Immunosorbent Assay. |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|

Protein Refseq

The length of the protein is 644 amino acids long.

The sequence is show below: MIDAACNYLNPYAQQHQAAQQQHAHQHQAQQQHHLMQQAQHHLHL  
SHQQAQQQHMQH LTQQQQQQQQQQQQQQQQQQQQQQQHQHDFLSAAALLSAPPSLSGSSSSGSS  
SGSSPLY GKPPMKLELPYPQASSTGTASPNSSIQSAPSSASVSPSIFPSPAQSFASISASPSTPTTT LAPPT  
TAAAGALAGSPTSSSPSSSAASAAAAAAAAAAAAADLGAAVASAAYGWNTAYSG LGPARSQFPYAQYAS  
DYYGNAVGMSSSAWFHSHQERLYQPWSSQSYPGFNDDIAFQTQL QRRSVRCTCPNCTNEMSGLPPIVG  
PDERGRKQHICHIPGGERLYGKASHLKLTHLRWHTGE RPFLCLTCGKRFSRSDQLQRHGRHTHTNYPYACP  
ICSKKFSRSDHLSKHKKTHFKDKKSK KVLAAEAKEQAAAAIKLEKKEKSGKPLTPPVEFKQECPDTTPLVN  
YAPYANLYQHSTSA GSSVNPPPPPPPLFQQQMTTTTSSAAASFVEQPWSSSSSRAIQPATTSASSSSSSSA  
SSP AAVVSAIGSASSPAASATALAQHHYAALAMQSESQLAAEYGLTMSGLASGASQDSSSSC HMKSEYA  
ASYPADFGAGTASYGYPHPHPHHHNAWAAAYHPHATA.

| Sub Cat      | Clonalit | Species                    | Reactivit | Applicatio | Clone    | Conjugate                                                   | Size   |
|--------------|----------|----------------------------|-----------|------------|----------|-------------------------------------------------------------|--------|
|              | y        | y                          |           | n          |          |                                                             |        |
| CBMOAB-37162 | Monoclon | Rhesus ( <i>Macaca mul</i> |           | WB, ELISA  | MO37162F | Unconjugated; also available for Biotin; HRP; FITC and othe | 100 µg |
| FYA          | al       | atta)                      |           |            | YA       | r labeled form.                                             |        |

**Protein Refseq:** The length of the protein is 439 amino acids long.

The sequence is show below: VQIIVPEDGIHGFNFTRTSIYPFLDFMPSPQVVGWNPCLPERRFNDTEVLQRLSCMAIKGDMFLVANLGTKQPCH  
SSDPGCPDDGRYQF NTN VFVSNKGTLDVDRYRKHNLYFEAAFDVPLNVHDITDTPFAGRFGIFTCFDILFFDPAVRLRDYKVKHVVYPTAWMNQ  
LPLAAIEI QKAFAVAFGINVLAANVHHPVLGMTGSGIHTPLESFWYHDMENPESHLIAQVAKNPVGLIGAENATGETDPSHSKFLKILSGDPYCEK  
D AQEVHCDEATKWNMNAPPTFHSEMMYDNFTLVPVWGKEGYLHVCSNGLCCYLLYERPTLSEELYALGVFDGLHTVHGTYIYQVCALVRCG GL  
GFGTCGQEITEATGIFEHLWGNFSTSYIFPLFTSGMTLEVPDQLGWEKDHYFLRKSGLSGLVTAALYGRLYERD.

|              |          |                                |  |           |          |                                                             |        |
|--------------|----------|--------------------------------|--|-----------|----------|-------------------------------------------------------------|--------|
| CBMOAB-68046 | Monoclon | Zebrafish ( <i>Danio rerio</i> |  | WB, ELISA | MO68046F | Unconjugated; also available for Biotin; HRP; FITC and othe | 100 µg |
| FYA          | al       | o)                             |  |           | YA       | r labeled form.                                             |        |

**Protein Refseq:** The length of the protein is 520 amino acids long.

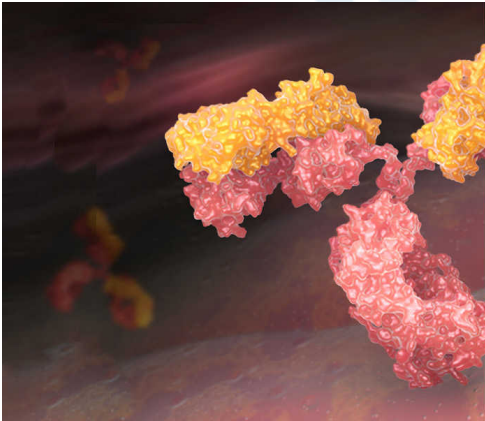
The sequence is show below: MALRRTQVVGLAVFVLCFSGQLQLLQAAEPPSYAAVYEHVRLLNPKPGAPQERRSALLHMRTNLRVLEEQSALA  
AQQGAQIIVPEDAI HGFNFSRSSISGYLESVPDPQEITWSPCADPHRFPDTEVLQHLSCMARRNSLFFVANMPSRLTCNQTSDPHCPTDGQYQ  
FNTNVVFSDDQG VIVARYHKQNLFEAAFDTPPERQHVTFTPTFAGRFGMFTCFDILFRDPAVTLVKELGVRQIVYPTAWMNQLPLAAVQIQQSFA  
HAAGV TLLAANIKAAEYGITGSGIFTPWDSLIIHDTQGNSGKLLVRRVPVLDPLFIGDVKSDVLKLAPFSGYPKIGLESEKTHVWSSSDANYCEK D  
FDCTSTSFNSIMMHDNFTLVPLRGHEGNVSVCSGVSQCQLLFRRSETLEFYALGVFNGLHVNVGVYYLEVCAVVKAGGDQSSCGGETE HAHT  
VVDFRLTGTFGTHVFPGLGNGMTLDVPDHSWDDGNRFYMSRRGMSAGLVTAVLYGRHYEKDND.

|              |          |                              |  |           |          |                                                             |        |
|--------------|----------|------------------------------|--|-----------|----------|-------------------------------------------------------------|--------|
| MO-AB-09173R | Monoclon | Cattle ( <i>Bos taurus</i> ) |  | WB, ELISA | MO09173R | Unconjugated; also available for Biotin; HRP; FITC and othe | 100 µg |
|              | al       |                              |  |           |          | r labeled form.                                             |        |

| Sub Cat | Clonalit | Species | Reactivit | Applicatio | Clone | Conjugate | Size |
|---------|----------|---------|-----------|------------|-------|-----------|------|
|         | y        | y       |           | n          |       |           |      |

**Protein Refseq:** The length of the protein is 525 amino acids long.

The sequence is show below: MSRAGRQLALLLCSCCVAVAIPGGLAEEGCPAEPHQASRYVAAVYEHQSFLSPDPLALTSREQALELMHRNLDVY  
 EQQVTTAARKGAQII VFPEDGIHGFNFTRTSIYPFLDFMPSPRSVRWNPCLEPHRFNDTEVLQRLSCMAMKGEMFLVANLGTKQPCHSSDPGCP  
 SDGRYQFNTNV VFSSNGTLVDTRYRKHNLVFEEAFDTPLEVDTVFDTPFAGKFGVFTCFDILFFDPAVRLLQDSEVKHVVYPTAWM.



### 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.