

AibGenesis™ Mouse Anti-Robo3 Antibody (CBMOAB-29862FYA)

Cat. No.: CBMOAB-29862FYA

Specifications

Host species	Mouse (<i>Mus musculus</i>)
Clone	MO29862FYA
Specificity	This antibody binds to fruit fly Robo3.
Format	Liquid or Lyophilized
Storage	Store at 4°C: short-term (1-2weeks) Store at -20°C: long-term and future use
Purity	> 90% was determined by SDS-PAGE
Purification	Purified with Protein A or G affinity chromatography
Cellular Localization	Plasma Membrane; Other locations

Application-Information

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

Target

Introduction

This gene is a member of the Roundabout (ROBO) gene family that controls neurite outgrowth, growth cone guidance, and axon fasciculation. ROBO proteins are a subfamily of the immunoglobulin transmembrane receptor superfamily. SLIT proteins 1-3, a family of secreted chemorepellants, are ligands for ROBO proteins and SLIT/ROBO interactions regulate myogenesis, leukocyte migration, kidney morphogenesis, angiogenesis, and vasculogenesis in addition to neurogenesis. This gene, ROBO3, has a putative extracellular domain with five immunoglobulin (Ig)-like loops and three fibronectin (Fn) type III motifs, a transmembrane segment, and a cytoplasmic tail with three conserved signaling motifs: CC0, CC2, and CC3 (CC for conserved cytoplasmic). Unlike other ROBO family members, ROBO3 lacks motif CC1. The ROBO3 gene regulates axonal navigation at the ventral midline of the neural tube. In mouse, loss of Robo3 results in a complete failure

of commissural axons to cross the midline throughout the spinal cord and the hindbrain. Mutations ROBO3 result in horizontal gaze palsy with progressive scoliosis (HGPPS); an autosomal recessive disorder characterized by congenital absence of horizontal gaze, progressive scoliosis, and failure of the corticospinal and somatosensory axon tracts to cross the midline in the medulla. Alternative transcript variants have been described but have not been experimentally validated. (From NCBI)

Product Overview

Mouse Anti-D. melanogaster Robo3 Antibody is a mouse antibody against Robo3. It can be used for Robo3 detection in Western Blot, Enzyme-Linked Immunosorbent Assay.

Protein Refseq

The length of the protein is 1342 amino acids long.

The sequence is show below: MDLRFV FIVFLLK WTHA QGSHPPRIVEHPIDTTVPRHEPATLNCKAEGSPTP
TIQWYKDG VPLKILPGSHRITLPAGGLFFLKVVNSRRETDA GIYWCEAKNELGVARSRNATLQVAVLR DEF
RLEPQNTRIAQGDTALLECAAPRGIP EPTVTWKKGGQKLDLEGSKRV RIVDGGNLAI QDARQTDEGQYQCI
AKNPVG VRESSLATLKVHV KPYIIRGPHDQTVLEGASVTFPCR VGG DPMPDVLWLRTASGGNMPLDRVSV
LEDRLRLERVTIAD EGEYSCEADNVVGAITAMGTL TVYAPPKFIQRPASKSVELGADTSFECRAIGNPKPTI
FWTIKNNSTLIFPGAPPLDRFHS LNTEEGHSILTTRFQR TDKDLVILCNAMNEVASITSRVQLSLDSQEDRP
PPIISGPVN QTLPIKSLATLQCKAIGLPSPTISWYRDGIPVQPSSKLNITTS GDLIISDLRQQDQGLY TCVAS
SRAGKSTWSGFLRIELPTNPNIKFYRAPEQTKCPSAPGQPKILNATASALTIVWP TSDKAGASSFLGYSVEM
YCTNQSRTWIPIASRLSEPIFTVESLTQGAAYMFIVRAENSLG FSPPSPISEPI TAGKLVGVRDGSESTGTSQ
LLLSDVETLLQANDVVELLEANASDSTTAR LSWDIDSGQYIEGFYLYARELHSSEYKMVTL LNKGQGLSSCT
VPLAKASTYEFFLV PFY KSI VGKPSNSRRMRTLEDVPEAPPY GMEAIQFNRTSVFLKWLPPQPNRTRNGI
LTSYNVV VKGLDVHNTTRIFKNMTIDAAAPTLLLANLTGVTYYIAVAAATRVGVGPF SKPAVLRID ARTQSL
DTGYTRYPISRDIADDFLTQTWFIVLLGSIIAIVFLLGALVLFKRYQFIKQTS LGS LHGNHAIGTVRKFP TPLN
GGGAVGAGGSNSTAAAGQSGHGLWIDPTSGVWRQAAGG GNPGGVGSCTTKEQLPGYAQATAQQGQQP
TLLPDYERLSPLNMPDYAEVACSTFKSPTHG APPMGGGGGGQSASLYDSCGAYATTNVVANVKLYQNRYA
TKPNQSSGSNNNNHQGNDYQS TGMYSAPSAHYGCLEPKQQQQQQPNLMTTSTASTAILTNSPAKVKK
INITENKMDQLE GKSERTNPFNQQLLLASNALKQGLGAYANTTLAAQMASGGGAGTLRRQRQPKTLYK
SE NNILGKSGLRQNTMNASV GAPSNGQMDFLTGGPPSEGGDFSGLGLCNSTNQLLNDWASSA SIAAPGD
YHFGSKQPSKQHLYVKAKDGTWSAVSSDAYQSFKHQQQHHPFLAGSGDNTKSL ASVNSLAGDSKFLSSF
GSSANV.

Sub Cat	Clonality	Species Reactivity	Application	Clone	Conjugate	Size
CBMOAB-5669	Monoclonal	Rhesus (<i>Macaca mulatta</i>)	WB, ELISA	MO56695F	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg
5FYA				YA		
Protein Refseq: The length of the protein is 268 amino acids long. The sequence is show below: VSFPHSEGLSGASSRPPMGLGPAPYPWLADSWPHPSRSPSAQEPRGSCCPSNPDPDDRYNEAGISLYLAQTA RGTAAPGEGPVYSTIDP AGEELQTFHGGFPQHPSGDAGPWSQYAPPEWSQGD SGAKGGRVKLLGKPVQMPSLNWPEALPPPPPSCELSCLE GPEEELEGSSEPEEWC PPMPERSHLTEPSSSGGCLVTPSRRETSPSTPSYQQSTATLTSPDPDPQPPTDMPHLHQMPRRVPLGPSSPLSVS QPMLGIREGRP.						
CBMOAB-9629	Monoclonal	Zebrafish (<i>Danio rerio</i>)	WB, ELISA	MO96290F	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg
0FYA				YA		

Sub Cat	Clonalit y	Species Reactivity	Applicati on	Clone	Conjugate	Size
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Protein Refseq: The length of the protein is 1419 amino acids long.

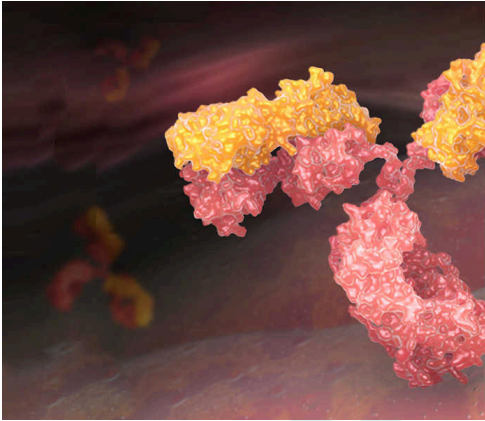
The sequence is show below: MLRYLIKTLQMNLFDTIRDATNGTDLFFNISSIPSFNSSLLDWANFTGLNGSRPRLEDAAPRIVEHPSDLIVSKGE
PATLNCKAEGRP TPMVEWYKDGERVETDREDPRSHRMLLPSGSLFFLRIVHGRRSKPDEGVYVCVARNYLGEAVSRNASLEVAILRDDFRQTPS
DVVVAAGE PAVMECIPPRGHPEPTISWKRNNVKVNDKDERITIRGGKLMISNTRKSDAGMYVCVGTNMVGEKSDPAELVFERPMFVRRPVNQ
VVLA DDTVDFQCEVQGDPAPTIRWKKEEGELPRGRFEIRADNSRLTQVKAEDGE SYTCLSENSVGKAEASGSLQVHVPPQIVVRPRDQISAQG
RTVTFLCGTKGNPPPAVFWQKEGSQVLLFPSQPPSQSGRFSVLSGELTITDVHSEDSGYIICQAISVAGSILTALLEVESTPSDRIPP IIRQGPAN
QTLAPGTTAQLQCHVMGNPLPSIQWERDQQRILGIDERISLMENGLTQITALQETDSGAYTCVASSLSGETSWSGVLTVKES GGLSASPVSEPYQ
LPGPPQKPVVTDVTRNSVTLTWQPNHEGGAAVTSYIEAFS QSAGSTWQTVADFKLEKHTVTGLSPNTIYLFIVR AVNAYGLSDPSPISEPVRT
QDVSP TGQGV DHRQVQRELGEMSVQLHEPVLLTASSVKISWNVDRQSQYIQGYRLLYRPVGGSWSQQEVKG ATERSAVIANLLKGTEYEIKIRP
YFNEFQGLDSRSQTLRTPEEVPSAPPRAVNVATVKLSNSSSISVSWQPPPTDMQNGVIQEYKVVCLG NDSQTRYNINQTVDGSVLSTVLKGLLP
GVLYQVEAAVTSAGVGKHSQPVSVLIKLP AEQPTVTGGGSESEENVSLAEQITDVVKQPAFI AGIGGACWVILMGFSVWIYCRRKKRKELSHYTA
SFAYTPAVGFPHGESSGLNGRPGMLGANMGNYPWLADSWPTTNLVHNGKDSVNCCTS KHETPERYYNEAGISNYLNQNEKYSADSNEGPIYST
IDPTSED LRSFTAQYSQH TTPYASTPIMPFTNQAPCSPEQD GSHWMTQPGTSNA QYAPDRSKTENVKQPKQKLMGKPKVKTPSLNWMDALPPP
PISGDLEQCDEEDD NELIQDMGSDEEEWCPPLPERSYLM DGMVEDGPVPPP RGEASSPTTSYSHQSTATLTSPRDDGHFHDIPLRHQLEQPH
MTRRLPCGPVHVPRAPSPPLTQSNPNLSANQECPDNTVPHRSAHKRDL SQGAAQSVENISNTTPGRARPSADHTPSGQKSKVKKKASKSAQY
RRDILQGDLPPPPEPPPEDQDNCAHVGGFECGQTS LERAGSSNSSM ERREQSTPNRKNSAHRIDDDDLIPYNKPNFLSRGQMSSNCSTTGS
SSSRGSTGSRGQGTGRKRND EMR.

MO-AB-07198H	Monoclonal	Frog (<i>Xenopus laevis</i>)	WB, ELISA MO07198C	Unconjugated; also available for Biotin; HRP; FITC and 100 µg of other labeled form.
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Protein Refseq: The length of the protein is 1396 amino acids long.

The sequence is show below: MAKQKIMCFMGKFTFTWILVSVCPVLGSRPRLEDFPPRIVEHPSDHIVSKGEPATLNCKAEGRP TPIIEWYKDG
VETDKDDPRSHRML LPSGSLFFLRIVHGRRSKPDEGVYICVARNYLGESVSRNASLEVAILRDDFRQTPNDVVVAAGEPAVMECIPPRGHPEPTIS
WKKDNMRI SDKDERITIRGGKLMISNTRKSDAGRYICVATNMVGERDSEPAQLVFERPTFIRRPINQVVLADDMVDFNCEVQGDVPPTARWRKE
EGE LPRGRYEILNDNTLRISRVSADDEGTYTCITENSVGKSEASGSLGVHVGPFLLPQLVTRPRDQIVVQGRVTFQCETKGNPPPAVFWQKE G
SQILLFPSQPPQTVGRFSVSPSGELTIIDVQTGDSGYMCQAISVAGSILAKALLEVEDATSDKIPPIIRRG PANQTLAVDSTVQMHCQ VSGNPLPSI
HWLKDQGRIVGSDPRIGVLD SGNLQITHLQVTD SGVYTCVATSSSTGETTWSGFIEVQEKGSLIHVQLSEPSLFRGSPSKPL VTDVTKNSVTLTWQ
PNPQAGNTQVHSYIIEAFS QSAGSTWQTVADSVKVEKHTVVGLNPNTVYLFIRAVNSYGISDPSPISEPVRTQDV SPTRQGV DHRQVQRQLGEV
VVQLQQPIILTSSTVQITWTVDRQAQFIQGYRVMYRPKSSVWLVDVKSPSERNTILVDLKKGTEYEIKIR PYFDEFQGMDSVLLIRTPEEVPSAP
PQAVSVVTLGTNNSTNISISWEPLVEHQNGI IQDYRIWVLGNETRYHINRTVDGTVHSTEV RG LTPGVLYRVEVAAATSAGFGVKSQPITIQIKPSS
DHIFEASGENVSLTEQITDVVKQPAFIAGIGGACWVILMCFSVWIYCRRKKRKELS HYTASFAYTPTVSFPESGHITARPGMLATSASNPWLAD

Sub Cat	Clonalit y	Species Reactivity	Applicati on	Clone	Conjugate	Size
SWPATNLLRNGKPKPAVNCCPGNHNPSEYYNDAGISNYIAQTEKFGTA VSDGPIYSTIDPTNDDMRTFNAGAFSQHTTPYATTPVVPYGGQNLH SPELEENQWNVQAGTSGVLYAQPDRTNAENVCKSGKQKAMGKPVK TPSLNWTEILPPPPANELNHYQQGDTDVEMSSDTEEWCPPLPERTY LMENIQEGCPPPPRGEASSPAHSYGQQSTATLTSPSPRDEIHA TEDIPRLHQFEIPPHRRMPAGSVPIPRAPSPPLTQSNPSLHTVVEGTEAQRQ GHRRLNSQNPNLSEAENVNMPNSGKSQLSENISTPPGQ KSRAKKKSKSGLYRREAKQGDLPPPPEPPPADEEPCSPHTNGPRMECLASSLERD TSTSSVERRNGAIQHRGAAGPQFHQRDDEEIIPYS KPNFLSRSQMSSNCSTTGSSSSRGSAGSRGQASGRSKTGDRKEEKR.						
MO-NAB-00610 Monoclo W	nal	D. melanogaster (<i>Drosophila me lanogaster</i>)	WB	NW0532	Unconjugated	100 µg
MO-NAB-00613 Monoclo W	nal	D. melanogaster (<i>Drosophila me lanogaster</i>)	IA	NW0535	Unconjugated	100 µg



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.