

AibGenesis™ Mouse Anti-ATP7A Antibody (CBMOAB-36605FYA)

Cat. No.: CBMOAB-36605FYA

Specifications

Host species	Mouse (<i>Mus musculus</i>)
Clone	MO36605FYA
Specificity	This antibody binds to Rhesus ATP7A.
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	Endosome; Golgi apparatus; 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 encodes a transmembrane protein that functions in copper transport across membranes. This protein is localized to the trans Golgi network, where it is predicted to supply copper to copper-dependent enzymes in the secretory pathway. It relocalizes to the plasma membrane under conditions of elevated extracellular copper, and functions in the efflux of copper from cells. Mutations in this gene are associated with Menkes disease, X-linked distal spinal muscular atrophy, and occipital horn syndrome. Alternatively-spliced transcript variants have been observed. (From NCBI)
Product Overview	Mouse Anti-Rhesus ATP7A Antibody is a mouse antibody against ATP7A. It can be used for ATP7A detection in Western Blot, Enzyme-Linked Immunosorbent Assay.

Protein Refseq

The length of the protein is 503 amino acids long.

The sequence is show below: MDPSMGVNSVTISVEGMTCSNVWVTEQQIGKLVNGVHHIKVKKVVFDKTGT
ITHGTPVVN QVKLLMESNRISHHKILAIVGTAESNSEHPLGAAITKYCKQELDTETLGTCTDFQVVP GC GISC
KVTNIEGLLHKNNWNIEDNNIKNASLVQIDASNEQSSTSSSMIIDAQISNALNAQQ YKVLIGNREWMIRNGLVI
SNNVDDFMTEHEKKGRTAVLVAVDDELGLIAIADTVKPEAE LAVHILKSMGLEVVLMTGDNSKTARSIASQV
GITKVFAEVLPSHKVAKVKQLQEEGKRVA MVGDGINDSPALAMANVGIAIGTGTDAIEAADVVLIRNDLLDV
VASIDLSRKTVKRIRI NFVFALIYNLVGPIAAGVFMPIGLVLQPWMGSAAMAASSVSVLSSFLKLYRKPTY
EN YELPARSQIGQKSPSEISVHVIGDDTSRNSPKLGLLDRIVNYSRASINSLSDKRSLSNV VTSEPDKHSLL
VGDFREDDDTAL.

Sub Cat	Clonalit y	Species	Reactivity	Applicati on	Clone	Conjugate	Size
CBMOAB-67165	Monoclon	Zebrafish (<i>Danio rerio</i>)	WB, ELISA	MO67165F	Unconjugated; also available for Biotin; HRP; FITC and ot 100 μ	her labeled form.	g
FYA	al						

Protein Refseq: The length of the protein is 1500 amino acids long.

The sequence is show below: MALSTNLCRVTLGVEGMTCGSCVQSIEGRIGGLPGVIHIQVSLEQNNATVTYDHTQHTPQSIADAIEDMGFESSLT
NATSTPVQTETKVF SKAGCSADSVQQALSTLAQIKGVIETQESADNQGLAVTFVPSLVSEDQLGEVLKCLAPDTACRPPLSPKEGSTSRSFSGVE
AVKMRIEGM VCLSCTTTIEGKIGKLGVEKIKVSLESQEAADVYLPYIITVDEIVKQIEVAGFKATVSKSPRQLKLSASEVERLLSAPKQTEEKLSEPP
ADSTVTTLFQVTGMHCNSCVNIQDNISKLPVAVTSVVVLENRQASIQHNPKQVSAVELQKAIEALPPGNFKAIIPASPEPGFLQPLVSV AEIHIEGM
TCGSCVQSIEGTL SQKKGVRSAQVSLANHHKGTFEYDPLLT SPEELRAAIEDMGFADF PETNSLVPSVVKSPSLSVRSSSL S PVRSAVKENEAES
DAEPSTNTISKCFIQIGMTCASCVANIERNLKNEYGIHSVLVALMASKAEVRYSPSVIDPLRIAELIRELGFTATV MDNYDGS DGSLELVVRGMTCA
SCVHKIESNLMKQKGILYASVALSTNKAHIKYDPEVTGPRDIIRLIENMGFTASLVKKDRPGSHLDHSR EIRQWKRSFQISLFFCVPVMGMMIYMIVV
DHMIDKYHQHHNATAEDRAKYHSTMFLKQLLPGLSIMNLISFLFCVPVQFIGGRYFYCQA YKAVKHRTANMDVLIVLATTIAFTYSVVVLLVAMVE
RAKVN PITFFDTPPMLFVFISLGRWLEQIAKSKTSEALSKLMSLQATEATV VTL NEDMSVLSEEQVDVELVQRGDVVKVPGGKFPVDGRVIEGHS
MADESLITGEAMPVTKKPGSTVIAGSINQNGSLLIKATHVGTDTTLSQ IVKLVEEAQTSKAPIQQFADKISSYFVPFIVISVLTLLAWIIIGFVNFSVLQ
TYFPGYDKSISEAEAVIRFAFQASITVLCIACPCSLG LATPTAVMVGTVGAQNGILIKGGEPLEMAHKIQSVVFDKTGTITYGAPKVQVQKMLAEG
NRLPRSKLLAIVGTAENSSEHPLGAAITKY CKQELGTESLGTCTDFQAVPGCGIRCLVSN TENLLKREDS DSEENQHNAVLIIQISDARAHSTEHLI
MDPQPLTVVQTASYTVLIGNREW MRRNALQVRADVDEAMTEHERRGCTAVLVAVDNELCAMVAIADTVKPEAE LAVHLSAMGLEVVLMTGDNS
KTARAAIAQVKNHLILPQN APILLFRMVGIRKVFAEVLPSHKVAKVEQLQEGKR VAMVGDGVNDSPALAMADV GIAIGTGTDAIEAADVVLIRND
LLDVVGSIDLSK KTVKRIRIN FVFALMYNLVGPIAAGVFM PVGLVLQPWMGSAAMALSSVSVLSSLLKCYTKPTVEKLKRRLGDV RTHGSLSDV
SVHIG MGELRRPSPKLSLLDRFVNYSRASINSLRSDKHSMNSMALSEPDKHSLLVGDDHCDNEIV.

MO-AB-00143L	Monoclon	Elephant (<i>Loxodonta afri cana</i>)	WB, ELISA	MO00143L	Unconjugated; also available for Biotin; HRP; FITC and ot 100 μ	her labeled form.	g
	al						

Sub Cat	Clonalit y	Species Reactivity	Applicati on	Clone	Conjugate	Size
Protein Refseq: The length of the protein is 225 amino acids long. The sequence is show below: IYYQPHLITAEIKKQIEAVGFSAFIKKQPKYLT LGAIDVERLKNTPVRYSEGSEQRSPSYTNDSTATFIINGMHCKSCVSNIESALSTL QYVSSIAISLENRSATVKYNASLVPETLRKAIEAVSPGQYS VSITSDVESTPSSPFSSYHQIPLNIVSQPLTQETVINIGGMTCNCSV QSIEGVISEKAGVKSIRVSLANSSGVIEYDPLLNSPETLREAIEN.						
MO-AB-07642W	Monoclonal	Cat (<i>Felis catus</i>)	WB, ELISA	MO07642W	Unconjugated; also available for Biotin; HRP; FITC and ot 100 µ her labeled form.	g
Protein Refseq: The length of the protein is 225 amino acids long. The sequence is show below: IVYQPHLITAEIKKQIEAVGFPAFIKKQPKYKLGAIDIERLKNTPVKSSEGPQQRSPSYSSDSTVTFIIDGMHCKSC VLNIESALSTL QYVSSIVSLENRSAIVKYNASSVTPETLRKAIEAISPGKYKVSITSEVESTSNPSSSSSLQKIPLNTVSHPLTQETVINIGGMTCN CV QSIEGVISKAGVKSIRVSLANGNGTVEYDPLLTSPETLREAIED.						
MO-AB-15197W	Monoclonal	Chimpanzee (<i>Pan troglo dytes</i>)	WB, ELISA	MO15197W	Unconjugated; also available for Biotin; HRP; FITC and ot 100 µ her labeled form.	g
Protein Refseq: The length of the protein is 1500 amino acids long. The sequence is show below: MDPSMGVNSVTISVEGMTCNCSVWTIEQQIGKVNNGVHHIKVSLEEKNATIIYDPKLQTPKTLQEAIIDMGFDAVIH NPDPLPVLDTLFL TVTASLTLPWDHIQSTLLKTGVTDIKIYPQKRTVAVTIIPSIVNANQIKELVPELSLDTGTLEKKGACEDHSMAQAGEVVLKM KVEGM TCHSCTSTIEGKIGKLQGVQRIKVS LDNQEATIVYQPHLISVEEMKKQIEAMGFPAFVKKQPKYKLGAIDVERLKNTPVKSSEGSQQRS P SYTNDSTATFIIDGMHCKSCVSNIESTLSALQYVSSIVSLENRSAIVKYNASSVTPESLRKAIEAVSPGLYRV SITSEVESTSNPSS SSLQKIPLNV VSQPLTQETVINIDGMTCNCSVQSIEGVISKKPGVKSIRVSLANSNGTVEYDPLLTSPETLRGAIEDMGFDATLSDTNEP LVVIAQPSSEMPLLTSTN EFYTKGMTVPVQDKEEGKNSSKCYIQVTGMTCASCVANIERNLRREEGIYSILVALMAGKAEVRYNPAVIQPP MIAEFIRELGFATVIENADEGDGV LELVVRGMTCASCVHKESSLTKHRGILYCSVALATNKAHIKYDPEIIGPRDIIHTIESLGFEAS LVKKDRSASHLDHKREIRQWRRSFLVSLFFCIPVM GLMIYMMVMDHHFATLHHNQNSKEEMINLHSSMFLERQILPGLSVMNLLSFLLC VPVQFFGGWYFYIYQAYKALKHKTANMDVLIVLATTIAFAYS LIILLVAMYERAKVNPITFFDTPPMLFVFIALGRWLEHIAKGKTSEALA KLISLQATEATIVTLDSNILLSEEQVDVELVQRGDIKVVPGGKFPVDGR VIEGHSMVDESITGEAMPVAKKPGSTVIAGSINQNGSL LICATHVGADTTLSQIVKLVEEAQTSKAPIQQFADKLSGYFVPFIVFVSIATLLVWIVIGF LNFEIVETYFPGYNRSISRTEMIIRFAFQ ASITVLCIACPCSLGLATPTAVMVGTVGAQNGILIKGGEPLEMAHKVKKVVVFDKTGTITHGTPVNVQV KVLTESNRISHHKILAIVGTA ESNSEHPLGTAITKYCKQELDTETLGT CIDFQVVPGCGISCKVTNIEGLLHKNNWNIEDNNIKNASLVQIDASNEQSS TSSSMIIDAQIS NALNAQYQKVLIGNREWMIRNGLVINNDVNDFMTEHERKGRTAVLVAVDDELGLIAIADTVKPEAELAIHILKSMGLEVLMTGD NSKT ARSIASQVGITKVFAEVLPSHKVAKVKQLQEEGKR VAMVGDGINDSPALAMANVGIAIGTGTDVAIEAADVVLIRNDLLDVVASIDLSRK TVK RIRINFV FALIYNLVGPIAAGVFMPIGLVLPWMGSAAMAASSVSVLSSLFLKLYRKPTYESYELPARSQIGQKSPSEISVHVGI DDTSRNSPKLGL LDRIVNYSRASINLLSDKRSLNSVVTSEPDKHSLLVGDFREDDDTAL.						
MO-AB-24013R	Monoclonal	Pig (<i>Sus scrofa</i>)	WB, ELISA	MO24013R	Unconjugated; also available for Biotin; HRP; FITC and ot 100 µ her labeled form.	g

Sub Cat	Clonalit y	Species Reactivity	Applicati on	Clone	Conjugate	Size
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Protein Refseq: The length of the protein is 1500 amino acids long.

The sequence is show below: MDLNMSVNSVTICVEGMTCCSSCVWTIEQHIGKLNQVHHIKVSLEEKNATIIYDPKLHTPKTLQDAIDDMGFDAILHN PKPLPILTETVFL TVAASLAPPWDHIQGTLLKTKGVTDIKISPQQRTAVVTIIPSVVNANQIIELVPDLSLDTGTLEKKSGTYEDYSMAQAGEVMLKMK VEGM TCHSCTSTIEGKIGKLQGVQRIKVSNDNQEATIIYQPHLITVEEIKKQIEAVGFPVFIKKQPKYLKLGAI DIERLKNTPVKSLEGSPQRS TSYTN NSTVIFIIDGMHCKSCVSNIESALSTLQYVSSIVVSLNRTAIVKYNASLVTPETLRKAIEDISPGQYRVSTSTSDIECTSNPSS SSLQKSPLNIVSQPL TQEA VINIDGMTCN SCVQSIEGVISKKPGVKYIRISLANGKGTVEYDPLLTSPETLREAI EDLGFDASLSDTNEP LVVIAQSSSEMPLLTSTNEFNSK MMT PVHDKEETKTSSKCYIQTGMT CASC VANIERNL RREGIYSVLVALMAGKAEVRYNPAVIQPL MIAELIRELGF GTTVM ENTDEGDGVLELV VRGMT CASC VH KIESTLTKHRGIFYCSVALATNKAHIKYDPEIIGPRDIIHVIESLGFEAS LVKKDRSASHLDHKREIRQWRR AFLVSLFFCIPVMGLM IYMMVMDHHLATLHPNQNM SQEEMINSHSSMFLERQILPGLSIMNLLSFLLC IPVQFFGGWHFYIQAYKALKHK TANMDVLIVLATTIAFAYSLVILLV AMYERAKVNPVTFFDTPMFLVFIALGRWLEHIAKGKTSEALA KLISLQATEATIVTLDSDNILLSEEQVDVELVQRGDIIKVPVGGKFPVDGRVIEG HSMVDES LITGEAMPVAKKSGSTVIAGSINQNGSL LIRATHVGADTTLSQIVKLVEEAQTSKAPIQQFADKLSGYFVPFVIVISIATLLWIIIGFANFEIM ETYFPGYNRSISQTETIIRFAFQ ASITVLCIACPCSLGLATPTAVMVGTVGAQNGILIKGGEPL EMAHKVKVVVFDKGTGTITHGTPVNVQVKVLVES NRISRSKILAIVGTA ESNSEHPLGAAITKYCKQELDTETLTGTCIDFQVVP GCGISCKVTNIEGLLRKNNWKIEENN IKNSSLLQIDASNEQSSTSSMI IDAHL S NGLNAQQYKVLIGNREWMIRNGLVINNDIDDSMTEHERKGR TAVLVVDD ELCGLIAIADTVKPEAELAVHILKSMGLEVV LMTGDNSKT A RSIASQVGITKVFAEVLPSHKVAKVKQLQEEGKR VAMVGDGINDSPALAMANVGIAIGTGT DVAIEAADVVLIRNDLLDVASIDLSRK TVKRIRINFV FALIYNLIGIPIAAGVFLPIGLVLQPWMGSAAMAASSVSVLSSLFLKLYRKPTYENYELHARSQMGQKTPSEISVHVGI DDTSRNSPKLGLLDRIVN YSRASINLLSDKRSINSVGTSEPDKHSLLVGDCREDDDSAL.

MO-AB-24268H	Monoclonal	Rat (<i>Rattus norvegicus</i>)	WB, ELISA	MO24268C	Unconjugated; also available for Biotin; HRP; FITC and ot 100 µg her labeled form.
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Protein Refseq: The length of the protein is 225 amino acids long.

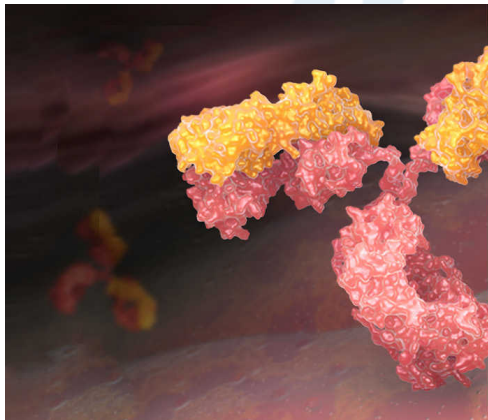
The sequence is show below: IVYQPHLITAEI IKKQIEAVGFPAFIKKQPKYLKLGAI DVERLKSTPVKSSEGSQQKSPAYPSDSAITFTIDGMHCKSC VSNIESALSTL QYVSSIVVSLNRS AIVKYNASLVTP EILRKAIEAVSPGQYRV SISSEVESPTSSPSSSSLQKMPLNLVSQPLTQEVVININGMTCNS CV QSIEGVISKKPGVKSIHVSLTNSTGTIEYDPLLT SPEPLREAI ED.

MO-AB-29175W	Monoclonal	Dog (<i>Canis lupus familia ris</i>)	WB, ELISA	MO29175W	Unconjugated; also available for Biotin; HRP; FITC and ot 100 µg her labeled form.
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Protein Refseq: The length of the protein is 225 amino acids long.

The sequence is show below: IGYQPHLITIEEIKKQIEAVGFPAFIKKQPKYLKLGAI DIERLKNTPVKSSEGSQQRSPSYTSDSTVTFIIDGMHCKSC VLNIESALSTL QYVSSIVVSLNRS AIVKYNASLVTPETLRKAIEAISPGQYRVSIASEVESTSNPSSSPLQKIPLNIVSHPLTQETVINIDGMTCN SC V QSIEGVISKKEGVKSIRVSLANGNGTVEYDPLLTSPETLREAI ED.

Sub Cat	Clonalit y	Species Reactivity	Applicati on	Clone	Conjugate	Size
MO-AB-36741W	Monoclonal	Goat (<i>Capra hircus</i>)	WB, ELISA	MO36741W	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg
Protein Refseq: The length of the protein is 75 amino acids long. The sequence is show below: WRR AFLVSLFFCIPVMGLMIYMMVMDHHLASLHHNQNMSSQEEMISIHSSMFLERQILPGLSIMNLLSFLLCVPVQ.						
MO-AB-42951W	Monoclonal	Hamsters (<i>Cricetinae</i>)	WB, ELISA	MO42951W	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg
Protein Refseq: The length of the protein is 225 amino acids long. The sequence is show below: IVYQPHLITAEIEKKQIEAVGFPAFIKKQPKYLKLG AIDVERLKNT PVKSPEGSQQKSPSYPSDSTATFIIEGMHCKSCVSNIESALSTL QYVSSIVVSLENRSAIVKYNASSVTPEMLRKAIEAVSPGQYRVSIANEVESTSSSPSSSLQK MPLNVVSQPLTQETVININGMTCNSCV QSIIEGVVSKKPGVKSIHVSLANSSGTVEYDPLLTSPETLREVIED.						
MO-AB-43812W	Monoclonal	Horse (<i>Equus caballus</i>)	WB, ELISA	MO43812W	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg
Protein Refseq: The length of the protein is 225 amino acids long. The sequence is show below: IVYQPHLITVEIEKKQIEAAGFP AFIKKQPKFLKLG AIDIERLKNT PVKSSERPQQRSPSCTNDSAVTFIVDGMHCKSCVSNIESALSTL QYVSSVVVSLENRSAIVKYNASLVTPETLRKAIEAISPGQYRVSPSEVESTSNPSGSSLHKIPLNIVSQPLTQETVINIDGMTCN SCV QSIIEGVISKKAGVKSIRVSLANGNGTVEYDPLLTSPETLRKAIED.						



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.