

AibGenesis™ Mouse Anti-Opa1 Antibody (CBMOAB-26461FYA)

Cat. No.: CBMOAB-26461FYA

Specifications

Host species	Mouse (<i>Mus musculus</i>)
Clone	MO26461FYA
Specificity	This antibody binds to fruit fly Opa1.
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; Mitochondrion; Cytoskeleton; 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	The protein encoded by this gene is a nuclear-encoded mitochondrial protein with similarity to dynamin-related GTPases. The encoded protein localizes to the inner mitochondrial membrane and helps regulate mitochondrial stability and energy output. This protein also sequesters cytochrome c. Mutations in this gene have been associated with optic atrophy type 1, which is a dominantly inherited optic neuropathy resulting in progressive loss of visual acuity, leading in many cases to legal blindness. (From NCBI)
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Product Overview	Mouse Anti-D. melanogaster Opa1 Antibody is a mouse antibody against Opa1. It can be used for Opa1 detection in Western Blot, Enzyme-Linked Immunosorbent Assay.
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Protein Refseq

The length of the protein is 972 amino acids long.

The sequence is show below: MLRIYQNTYRRTARKAVVYSTKVACCNHSTLCGITSHPRRAQDSGSSSSNG
RHRGHEEFL LAGNPARGWQMPPPSRGYGMLVVRILRGALKLRYIVLGGAGGGVSLSKKYEWDGLPN
FKWLEDAMPQGERWSQFSRNLIEVGLVKNAIEVDPKLKQLGEDKLSEWRNWFD SRLDDA IEAADYQGV
QIVETKDDLKAKTTVAALGITSDESRRKYEKLQSQVETLQTEIMNVQIKYQ KELEKMEKENREL RQYILILKT
NKKTTAKKIKKSLIDMYSEVLDELSGYDTGYTMADHLP RVVVVG DQSSGKTSVLESI AKARIFPRGSGEMM
TRAPVKVTLAEGPYHVAQFRDSDREYD LTKESDLQDLRRDVEFRMKASVRGGKTVSNEVIAMTVKGPGLQ
RMVLVDLPGIISTMTVD MASDTKDSIHQMTKHYMSNPNAIILCIQDGSVDAERSNVTDLVMQC DPLGRRTIF
VLTKV DLAEELADPDRIKILSGKL FPMKALGYAVVTGRGRKDDSIDAIRQYEE DFFKNSKLFH RRGVIMP
HQVTSRNL SLAVSDRFWKMVRETIEQQADAFKATRFNLET EWKNNFRLRESG RDELFDKAKGEILDEVV
TLSQISAKKWDDALSTKLWEKLSNYVFESIYLPAAQSGSQNSF NTMVDIKLRQWAEQALPAKSVEAGWEAL
QQEFISLMERSKKAQDHDGIFDQLKSAVVDEA IRRHSWEDKAIDMLRVIQLNTLED R FVHDKQEWD SAVKF
LESSVNAKL VQTEETLAQMFG PGQMRRITHWQYLTQDQQKRRSVKNELDKILKNDTKHLPTLTHDELTTVR
KNLQRDNVDV DTDYIRQTWFPVYRKHFLQQALQRAKDCRKAYLYTQQGAECEISCSDV VLFWRIQVQIK I
TGNALRQQVINREARRLDKEIKAVLDEFSDDEEKKGYLLTGKRVLLAEELIKVRQIQEK LEEFINSLNQEK.

Sub Cat	Clon ality	Species	Reactivity	Applicati on	Clone	Conjugate	Siz e
CBMOAB- Mono		Zebrafish (<i>Danio rerio</i>)		WB, ELISA	MO906	Unconjugated; also available for Biotin; HRP; FITC and other labels	100 µg
90616FYA clonal					16FYA	d form.	

Protein Refseq: The length of the protein is 966 amino acids long.

The sequence is show below: MLRAGSVVTCIACKGLLPSRMGVKFRVPLQKLHPLSRAIHHRYSANNNPQRPPHCSAARHYTSL SRLPMRPPKS
RSGGHGYQQHRTFWVA RLAARLLK LRYILLGS AVGGGYTAKKTYDEWKEMLPDMSEYTWIVPDFVWELSENIDLDKLASALPELEEIAKLLPDME
KIGENFTFLKS LLSSETTGESALRAPDVPPASAAMADSGDKQFKKSSDKEKVDQLQEELLRTQLKYQRMLERLEKENKELRKVV LQKDDKGIHQ
RKVKKSL IDMYSEVL DILSDYSNYNTQDHLPRVV VVG DQSAGKTSVLEMIAQARIFPRGSGEMMTRSPVKVTLSEGP HHVAMFKDSSREFDLG
KEE DLAA LRHEIELMRKSVKEGQTVSPETISLSVKGPGIQRMVLVDLPGVISTVTTGMAADTKETIFSISKAYMQNPNAIILCIQDGSVDAE RSI VT
DLVSQMDPQGKRTIFVLT KVDLAEKNLASPSRIQQIVEGKL FPMKALGYFAVVTGKGSPNESIDS IKDYEE DFFQNSRLLKDGML KAHQVTTKNLS
LAVSDCFWKMVRESVEQQADAFKASRFNLET EWKNNYPRLRELD RNELYEKAKNEILDEVISLSQVTPKHWESILQKKL WERVSTHVIENIYLPAA
QTMNSGT FNTTVDIKLKQWTDKQLPHKALEVAWETLQEEFARFMAEYKGKDQDDIFDKLKEAVKDESIKRHKW NERAMDSL RVIQHNALED RSIT
DKPQWDAAIQFMEETLQSR LKDTESVIADMVGPDWKQRWMSWKNRTPEQHTRNETKNELERLLKLHED HTAYLANDEVTTVRKNLEARGVEV
DPVLIKDTWHQLFRRHFLQKALLHCNLCRRGFYYYQRHFVDSELECNDV VLFWRIQRMLGITANTL RQQLTNT EVRRLEKNVKEVLEDFGEDNE
KKVQLITGRRVQLAEDLKKVREIQEKLEAFIEALHKEK.

MO-AB-03 Mono		Chicken (<i>Gallus gallus</i>)		WB, ELISA	MO032	Unconjugated; also available for Biotin; HRP; FITC and other labels	100 µg
270Y	clonal				70Y	d form.	

Sub Cat	Clon ality	Species Reactivity	Applicati on	Clone Conjugate	Siz e
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Protein Refseq: The length of the protein is 996 amino acids long. The sequence is show below: MWRTKAAAACVICRSLAHSNYGIKRKSP LQ NLHLVSRSIHHPYHPSLKFQRRPLRISLQQFSSLNRLPLRKTLLNVKYGYSYRNF WLA RLASRL LKIRYLILGSAVGGGYTAKKTYDQWKDMMP DLDEYKWIPDFIWELDEHIDLEKLKALPDADDLAKLLPDFEKIGESFTSLKG IFSPGTPGETAFRATDQGYSDSKQYKKGLLGELILLQQQIQQHE EEARRAAGQYNPGSYQQKRKVS DKEKIDQLQEELLRTQLKYQRMLE RLEKENKELRKLVLQRDDKGIHQ RKLKSLIDMYSEVLDILSDYDASYN TQDHLPRVVVVG DQSAGKTSVLE MIAQARIFPRGSGEMMTR SPVKVTLSE GPHHVALFKDSSREFDLTKEEDLAALRNEIEIRMRNSVKEGCTVS TETISLSVKG PGLQRMVLDLPGVISTVTSGMAPDT KETIFSISKAYMQNPNAI LCIQDGSVDAERSIVTDLVSQMDPQ GKRTIFVLTKVDLAEKNV ASPSRIQQII EGKLFPMKALGYFAVVTG KGNSSIESIESIKEYEEFFQNSKLLKTSMLKAHQVTTKNLSLAVSDCFWKMVRESVEQQADAFKATRF NLETEWKNNYPRLRELD RNELF EKAKNEILDEVISLTQVTPKHWEELQKTLWERVSTHVIENIYLPAAQTMNSGTFNTTVDIKLKQWTDKQLPNK AVEVAWETLQEEFSRF MTEQKGKEHDDIFDKLKQAVKEESIKRHKWNERAEDSLRVIQHNALED RSISDKQQWDAAIHFMETLQSRLKDTESVI EDMVGPDWKKR WLYWISRTKEQNIRNETKNELEKLIKCN EEAAYLANDEVTTVRKNLEARGITVDPCLIKDTWHQIYRRYFLKTALNHCNLCRR GFYYYQ RHFVDSELECNDIVLFWRIQRMLAITANTLRQQLT NTEVRRLEKNVKEVLEDFAEDNEKKVKLLTGKRVQLAEDLKKVREIQEKLEAFIE ALHQEK.

MO-AB-04 Mono				Unconjugated; also available for B	100
904W	clonal	Rhesus (<i>Macaca mulatta</i>)	WB, ELISA	MO049 04W iotin; HRP; FITC and other label d form.	µg

Protein Refseq: The length of the protein is 978 amino acids long.

The sequence is show below: MWRLRRAAVACEVCQSLVKHSSGIGSLPLQKLHLVSRSIYHSHHPTLKLQRPQLRTSFQQFSSLTNLPLRKLKFS PIKYGYP RRFNFWP ARLATRL LKRLYLILGSAVGGGYTAKKTFDQWKDMIPDLSEYKWIVPDIVWEIDEYIDFEKIRKALPNSEDLVKLAPDFDKIVE SLNLLK DFFTSGHKL VSEVIGASDLLLLLGSPGETAFRATDHGSESDKHFRKVS DKEKIDQLQEELLHTQLKYQRILERLEKENKELRKLVLQKDD KGIHHRKLKSLIDMYSEVLDVLS DYDASYNTQDHLPRVVVVG DQSAGKTSVLE MIAQARIFPRGSGEMMTRSPVKVTLSE GPHHVALFK DSSR EFDLTKEEDLAALRHEIELMRKNVKEGCTVSPETISLNKGPGLQRMVLDLPGVINTVTSGMAPDTKETIFSISKAYMQNPNAI ILCIQDGSVDA ERSIVTDLVSQMDPHGRR TIFVLTKVDLAEKNVASPSRIQQII EGKLFPMKALGYFAVVTGKGNSSIESIAIREYEEEF FQNSKLLKTSMLKAHQVTT RNLSLAVSDCFWKMVRESVEQQADSFKATRFNLETEWKNNYPRLRELD RNELFEKAKNEILDEVISLSQVT PKHWEEILQQSLWERVSTHVIENI YLPAAQTMNSGTFNTTVDIKLKQWTDKQLPNKAVEVAWETLQEEFSRFMTEPKGKEHDDIFDKLKE AVKEESIKRHKW NDFAEEDSLRVIQHNALE DRSISDKQQWDAAIYFMEEALQARLKDTENAIENMVGPDWKKRWLYWKNRTQEQC VHN ETK NELEKMLKCNEEH PAYLASDEITTVRKNLES R GVEVDPSLIKDTWHQVYRRHFLKTALNHCNLCRRGFYYYQRHFVDSELECNDVVLFWR IQRMLAITANTLRQQLT NTEVRRLEKNVKEVLEDFAE DSEKKIKLLTGKRVQLAEDLKKVREIQEKLDAFIEALHQEK.

MO-AB-26 Mono				Unconjugated; also available for B	100
603W	clonal	Chimpanzee (<i>Pan troglodytes</i>)	WB, ELISA	MO266 03W iotin; HRP; FITC and other label d form.	µg

Sub Cat	Clon ality	Species Reactivity	Applicati on	Clone Conjugate	Siz e
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Protein Refseq: The length of the protein is 997 amino acids long.

The sequence is show below: MWRLRRAAVACEVCQSLVKHSSGIKGSPLQKLHLVSRSIYHSHHPTLKLQRPQLRTSFQQFSSLTNLPLRKLKFS
PIKYGYQPRNFWP ARLATRLKLRLYLILGSAVGGGYTAKKTFDQWKDMIPDLSEYKWIVPDIVWEIDEYIDFEKIRKALPNSEDLVKLAPDFDKIVE
SLSLLK DFFTSGSPGETAFRATDHGSESDKHFRKGLLGELILLQQIQEREEEEARRAAGQYSTSYAQQKRKVSDEKIDQLQEELLHTQLKYQRIL
ERLEKENKELRKLVLQKDDKGIHHRKLKSLIDMYSEVLVDVSDYDASYNTQDHLPRVVVVGDSAGKTSVLEMIQAARIFPRGSGEMMT RSPVK
VTLSEGP HHVALFKDSSREFDLTKEEDLAALRHEIELMRKNVKEGCTVSPETISLNVKGPGQLQRMVLDLPGVINTVTSGMAPD TKETIFSISKAY
MQNPNAIILCIQDGSVDAERSIVTDLVSQMDPHGRRTIFVLTQVLAEKNVASPSRIQQIIEGKLFPMKALGYFAVVT GKGNSSESIEAIREYEEEEFF
QNSKLLKTSMLKAHQVTTRNLSLAVSDCFWKMVRESVEQQADSFKATRFNLETEWKNNYPRLRELD RNEL FEKAKNEILDEVISLSQVTPKHWE
EILQQSLWERVSTHVNIENIYLPAAQTMNSGTFTNTVDIKLKQWTDKQLPNKAVEVAWETLQEEFSR FMTEPKGKEHDDIFDKLKEAVKEESIKRHK
WNDAEDSLRVIQHNALED RSISDKQQWDAAIYFMEEALQARLKD TENAIENMVGPDWKK RWIYWK NRTQEQC VHNETKNELEKMLKCNEEHP
AYLASDEITTVRKNLESRGVEVDPSLIKDTWHQVYRRHFLKTALNHCNLCRRGFYYY QRHFVDSELECNDVVLFWRIQRM LAITANTLRQQLTNT
EVRRLKENVKEVLEDFAEDEGKKIKLLTGKRVQLAEDLK VREIQEKLDAFI EALHQEK.

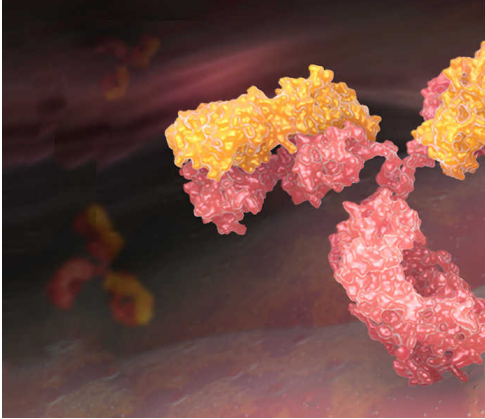
MO-AB-60 Mono	Marmoset	WB, ELISA	MO606 08W	Unconjugated; also available for B iotin; HRP; FITC and other label d form.	100 µg
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Protein Refseq: The length of the protein is 1015 amino acids long.

The sequence is show below: MWRLRRAAVACEVCQSLVKHSSGVKGGPLQKLHLVSRSIYHSHCHPTLKLQRPQLRTSFQQFSSLTNLPLRKLKFS
SPIKYGYQPRNFWP ARLATRLKLRLYLILGSAVGGGYTAKKTFDQWKDMIPDLSEYKWIVPDIVWEIDEYIDFEKIRKALPNSEDLVKLAPDFDKIV
ESLCLK DLFTTGHKLVS EVIGASDLLLLGSSGETAFRATDHGSESDKHFRKGLLGELILLQQIQEHEEEEEARRAAGQYSTSYAQQKRKVSDEKEI
DQLQEELLHTQLKYQRILERLEKENKELRKLVLQKDDKGIHHRKLKSLIDMYSEVLVDVSDYDASYNTQDHLPRVVVVGDSAGKTSVL EMIAQA
RIFPRGSGEMMTRSPVKVTLSEGP HHVALFKDSSREFDLTKEEDLAALRHEIELMRKNVKEGCTVSPETISLNVKGPGQLQRMV LVDLPGVINTV
TSGMAPDTKETIFSISKAYMQNPNAIILCIQDGSVDAERSIVTDLVSQMDPHGRRTIFVLTQVLAEKNVASPSRIQQI IEGKLFPMKALGYFAVVTGK
GNSSESIEAIREYEEEEFFQNSKLLKTSMLKAHQVTTRNLSLAVSDCFWKMVRESVEQQADSFKATRFNLE TEWKNNYPRLRELD RNELFEKAKN
EILDEVISLSQVTPKHWE EILQQSLWERVSTHVNIENIYLPAAQTMNSGTFTNTVDIKLKQWTDKQL PNKAVEVAWETLQEEFSRFMTEPKGKEHDD
IFDKLKEAVKEESIKRHKWNDAEDSLRVIQHNALED RSISDKQQWDAAIYFMEEALQAR LKDTESAIENMVGPDWKKRWLYWK NRTQEQC VHN
ETKNELEKMLKCNEEHPAYLASDEITTVRKNLESRGVEVDPSLIKDTWHQVYRRHF LKTALNHCNLCRRGFYYYQRHFVDSELECNDVVLFWRI
QRMLAITANTLRQQLTNT EVRRLKENVKEVLEDFAEDEGKKIKLLTGKRVQL AEDLK VREIQEKLDAFI EALHQEK.

MO-DKB- Polycl	Human (<i>Homo sapiens</i>), Mouse (<i>Mus musculus</i>), Rat (<i>Rattus norvegicus</i>), Pig (<i>Sus scrofa</i>), Chicken (<i>Gallus gallus</i>), Zebrafish (<i>Danio rerio</i>), Primate	WB, IB, IHC	Unconjugated	100 µg
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Sub Cat	Clon ality	Species Reactivity	Applicati on	Clone Conjugate	Siz e
MOFY-122	Polycl	Drosophila melanogaster	WB, IHC, IC	Unconjugated	100
2-FY191	onal		C, IF, ELISA		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.