

AibGenesis™ Mouse Anti-Gad1 Antibody (CBMOAB-17143FYA)

Cat. No.: CBMOAB-17143FYA

Specifications

Host species	Mouse (<i>Mus musculus</i>)
Clone	MO17143FYA
Specificity	This antibody binds to fruit fly Gad1.
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	Cytosol

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 one of several forms of glutamic acid decarboxylase, identified as a major autoantigen in insulin-dependent diabetes. The enzyme encoded is responsible for catalyzing the production of gamma-aminobutyric acid from L-glutamic acid. A pathogenic role for this enzyme has been identified in the human pancreas since it has been identified as an autoantigen and an autoreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Deficiency in this enzyme has been shown to lead to pyridoxine dependency with seizures. Alternative splicing of this gene results in two products, the predominant 67-kD form and a less-frequent 25-kD form. (From NCBI)
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Product Overview

Mouse Anti-D. melanogaster Gad1 Antibody is a mouse antibody against Gad1. It can be used for Gad1 detection in Western Blot, Enzyme-Linked Immunosorbent Assay.

Protein Refseq

The length of the protein is 510 amino acids long.
The sequence is show below: MSLNPNGYKLSERTGKLTAYDLMPTTVTAGPETREFLLKVIDVLLDFVKATNDRNEKVLD FHHPEDMKRLLDLDPDRALPLQQLIEDCATTLKYQVKTGHPHFFNQLSNGLDLISMAE WL TATANTNMFTYEIAPVFIEMENVVLTMKREIIGWSGGDSILAPGGSISNLYAFLAARH KMFPNYKEHGSVGLP GTLVMFTSDQCHYSIKSCAAVCGGLGTDHCIVVPSDEHGKMITSEL ERLILERKAKGDIPFFVNATAGTTVLGA FDDINTIADICQKYNCWMHIDAAGGGLLSMR KHRHPRFTGVERADSVTWNPHKLMGALLQCSTIHFKEG LLLISCNQMSAEYLFMTDKQYD ISYDTGDKVIQCGRHNDIFKLWLQWRAKGTGFEQQQDRLMELVQYQL KRIREQSDRFHL ILEPECVNVSFWYVPKRLRGVPHDAKKEVELGKICPIIKGRMMQKGTLMVGYQPDDRRP N FFRSIISSAAVNEADVDFMLDEIHRLGDDL.

Sub Cat	Clonality	Species	Reactivity	Application	Clone	Conjugate	Size
CBMOAB-33667	Monoclonal	A. thaliana (<i>Arabidopsis thaliana</i>)		WB, ELISA	MO33667F	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg

Protein Refseq:

The length of the protein is 502 amino acids long. The sequence is show below: MVLSHAVSESDVSVHSTFASRYVRTSLPRFKMPENSIPKEAAYQIINDELMLDGNPRLNLASFVTTWMEPECDKLIMSSINKNYVDMDEY PVTTELQNRCVNMIAHLFNAPLEEAEAVGVGTGVSSEAIMLAGLAFKRKWQNKRAEGKPVDPKNIVTGANVQVCWEKFARYFEVELKE VKLSEGYVMDPQQAVDMVDENTICVAAILGSTLNGEFEDVKLLNDLLVEKNKETGWDTPIHVDAASGGFIAPFLYPELEWDFRLPLVKS INVSGHKYGLVYAGIGWVIWRNKEDLPEELIFHINYLGADQPTFTLNFSGKSSQVIAQYYQLIRLGHEGYRNVMENCRENMIVLREGLEK TERFNIVSKDEGVPLVAFSLKDSSCHTEFEISDMLRRYGWIVPAYTMPPNAQHITVLRVVIREFSRTLAEERLVIDIEKVMREDELPSR VIHKISLGQEKSESNSDNLMTVKKSDIDKQRDIITGWKKFVADRKKTSIGIC.

CBMOAB-43299	Monoclonal	Rhesus (<i>Macaca mulatta</i>)		WB, ELISA	MO43299F	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg
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Protein Refseq:

The length of the protein is 224 amino acids long.
The sequence is show below: MASSTPSSSATSSNAGADPNTTNLRPTTYDTWCGVAHGCTRKLGLKICGFLQRTNSLEEKSRVSAFKERQSSKNLLSCENSDDRDRARFRR TETDFSNLFARDLLPAKNGEEQTVQFLLEVVDILLNYVRKTFDRSTKVLDFFHHPHQLLEGMEGFNLELSDHPESLEQILVDCRDTLKYGV RTGKGENRKHRS LGDIMNVNAGEWLTSTANTNMPSPDMRECWLLR.

CBMOAB-01423	Monoclonal	Yeast		WB, ELISA	MO01423C	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg
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Protein Refseq:

The length of the protein is 585 amino acids long. The sequence is show below: MLHRHGSKQKNFENIAGKVVDLAGLQLLSNDVQKSAVQSGHQSGSNMRDTSSQGMANKYSVPKKGLPADLSYQLIHNELTLDGNPHNL ASFVNTFTTDQARKLIDENLTKNLADNDEYPQLIELTQRCISMLAQLWHANPDEEPIGCATTGSSEAIMLGGLAMKKRWEHRMKNAGKDA SKPNIIMSSACQVALEKFTRYFEVEECRLVPVSHRSHHMLDPESLWDYVDENTIGCFVILGTTYTGHLNVEKVADVLSQIEAKHPDWSNT DIPIHADGASGGFIIPFGFEKEHMKAYGMERWGFNHPRVSMNT

Sub Cat	Clonalit y	Species Reactivity	Applicati on	Clone	Conjugate	Size
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SGHKFGLTTPGLGWVLRDESLADELRFLKYLGGVEETFGLNFS RPPGFQVVHQYFNFVSLGHSYRTQFQNSLFVARAFSFELLNSSKLPGC
FEIVSSIHESIENDSAPKSVKDYWEHPQAYKPGVPLVAFKLS KKFHEEYPEVPQAILSSLLRGRGWIIIPNYPLPKATDGSDEKEVLRVVRSEMKLD
LAQLLIVDIESILTKLIHSYEVCHHIELASEQTP ERKSSFIYEMLLALASPQDDIPTDEIEKKNKLKETTTRNYRGTC.

MO-AB-08098W	Monoclonal	Cat (<i>Felis catus</i>)	WB, ELISA	MO08098W	Unconjugated; also available for Biotin; HRP; FITC and o 100 µg ther labeled form.	g
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Protein Refseq: The length of the protein is 594 amino acids long.

The sequence is show below: MASSTPSSSATSSNAGADPNTTNLRPTTYDTWCGVAHGCTRKLGKICGFLQSTNSLEEKSRVSAFKERQSSK
NLLSCENSDDRGRFRRTETDFSNLFARDLLPAKNGEEQTVQFLLEVVDILLNYVRKTFDRSTKVLDFFHHPQLLEGMEGFNLELSDHPESLEQILV
DCRDTLKYGV RTGHPRFFNQLSTGLDIIGLAGEWLTSTANTNMFTYEIAPVFLMEQITLKKMREIVGWSSKDGIFSPGGAISNMYSIMAARYK
FFPE VKTKGMAAVPKLVLTSEHSHYSIKKAGAALGFGTDNVILIKCNERGKIIPADLEAKILEAKQKGYVPLYVNATAGTTVYGAFDPIQEIA DICEK
YNLWLHVDAAWGGGLLMSRKHRLKSGIERANSVTWNPHKMMGVLLQCSAILVKEKGILQGCNQMCAGYLFQDPKQYDVSYDTGD KAIQCGR
HVDIFKFWLMWKAGTVGFENQINKCLELAELYAKIKNREEFEMVFDGEPEHTNVCFWYIPQSLRGIPDPERREKLHRVAP KIKALMMESGTT
MVGYPQGDKANFFRMVISNPAATQSDIDFLIEEIERLGQDL.

MO-AB-30868W	Monoclonal	Dog (<i>Canis lupus familiaris</i>)	WB, ELISA	MO30868W	Unconjugated; also available for Biotin; HRP; FITC and o 100 µg ther labeled form.	g
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Protein Refseq: The length of the protein is 595 amino acids long.

The sequence is show below: MASSTPSSSATSSNAGADPNTANLRPTTYDTWCGVAHGCTRKLGKICAFFETANILENKYLQINAFKHNRDLPLPL
LSCDVHDPPrILVS TKTAVGSLKARYLLPAKNGEEQTVQFLLEVVDILLNYVRKTFDRSTKVLDFFHHPQLLEGMEGFNLELSDHPESLEQILVDCR
DTLKYGV RTGHPRFFNQLSTGLDIIGLAGEWLTSTANTNMFTYEIAPVFLMEQITLKKMREIVGWSSKDGIFSPGGAISNMYSIMAARYKFFP
E VKTKGMAAVPKLVLTSEHSHYSIKKAGAALGFGTDNVILIKCNERGKIIPADLEAKILEAKQKGYVPLYVNATAGTTVYGAFDPIQEIA DICEKYNL
WLHVDAAWGGGLLMSRKHRLKSGIERANSVTWNPHKMMGVLLQCSAILVKEKGILQGCNQMCAGYLFQDPKQYDVSYDTGD KAIQCGRHVD
IFKFWLMWKAGTVGFENQINKCLELAELYAKIKNREEFEMVFDGEPEHTNVCFWYIPQSLRGIPDPERREKLHRKVA PKIKALMMESGTTMV
GYQPQGDKANFFRMVISNPAATQSDIDFLIEEIERLGQDL.

MO-AB-55794W	Monoclonal	Marmoset	WB, ELISA	MO55794W	Unconjugated; also available for Biotin; HRP; FITC and o 100 µg ther labeled form.	g
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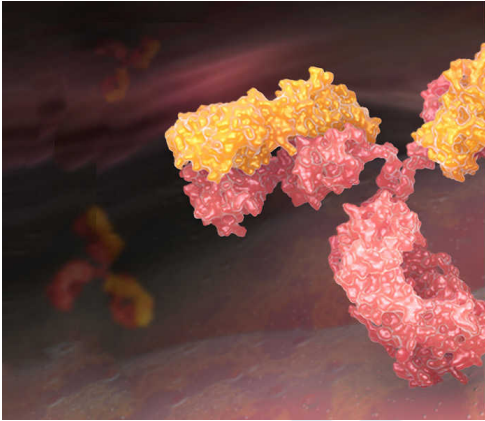
Protein Refseq: The length of the protein is 594 amino acids long.

The sequence is show below: MASSTPSSSATSSNAGADPNTTNLRPTTYDTWCGVAHGCTRKLGKICGFLQRTNSLEEKSRVSAFKEKQSSK
NLLSCENSDDRGRFRRTETDFSNLFARDLLPAKNGEEQTVQFLLEVVDILLNYVRKTFDRSTKVLDFFHHPQLLEGMEGFNLELSDHPESLEQILV
DCRDTLKYGV RTGHPRFFNQLSTGLDIIGLAGEWLTSTANTNMFTYEIAPVFLMEQITLKKMREIVGWSSKDGIFSPGGAISNMYSIMAARYK
YFPE VKTKGMAAVPKLVLTSEHSHYSIKKAGAALGFGTDNVILIKCNERGKIIPADFEAKILEAKQKGYVPFYVNATAGTTVYGAFDPIQEIA DICEK

Sub Cat	Clonalit y	Species Reactivity	Applicati on	Clone	Conjugate	Size
YNLWLHVDAAWGGGLLSMRKHRHKLNGIERANSVTWNP HKMMGVLLQCSAILVKEKGILQGCNQMCAGYLFQPKQYDVSYDTGD KAIQCGR HVDIFKFWLMWKAKGTVGFENQINKCLELAELYAKIKNREEFEMVFDGEPEHTNVCFWYIPQSLRGVPD SPERREKLHKVAP KIKALMMESGTT MVGYQPQGDKANFFRMVISNPAATQSDIDFLIEEIERLGQDL.						
MO-AB-25929H	Monoclonal	Rat (<i>Rattus norvegicus</i>)	WB, ELISA	MO25929C	Unconjugated; also available for Biotin; HRP; FITC and o 100 μ ther labeled form.	g

Protein Refseq: The length of the protein is 223 amino acids long.

The sequence is show below: MASSTPSPATSSNAGADPNTTNLRPTTYDTWCGVAHGCTRKLGLKICGFLQRTNSLEEK SRLVSAFRERQASKN
 LLSCENS DPGARFRT ETDFS NLFAQDLLPAKNGEEQTVQFLLEVVDILLNYVRKTFDRSTKVLD FHHPHQLLEGMEGFNLELS DHPESLEQILVD
 CRDTLKYGVR TGHPRFFNQLSTGLDIIGLAGEWLTSTANTNMPSDMRECWLLR.



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.