HEXA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HEXA, Polyclonal Antibody
Full Product Name	HEXA Polyclonal Antibody
Product Gene Name	anti-HEXA antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	19kDa; 60kDa
OMIM	272800
3D Structure	ModBase 3D Structure for P06865
Immunogen	Recombinant protein of human HEXA (NP_000511.2).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HEXA antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-HEXA antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-HEXA antibody	This gene encodes a member of the glycosyl hydrolase 20 family of proteins. The encoded preproprotein is proteolytically processed to generate the alpha subunit of the lysosomal enzyme beta-hexosaminidase. This enzyme, together with the cofactor GM2 activator protein, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Mutations in this gene lead to an accumulation of GM2 ganglioside in neurons, the underlying cause of neurodegenerative disorders termed the GM2 gangliosidoses, including Tay-Sachs disease (GM2-gangliosidosis type I). Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed.
Other Notes	Small volumes of anti-HEXA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HEXA purchase	MBS8567315 is an antibody targeting HEXA. Also known as HEXA Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HEXA. It may not necessarily be applicable to this product.

NCBI GI #	189181666
NCBI GeneID	3073
NCBI Accession #	NP_000511.2

UniProt Primary Accession #	P06865
UniProt Related Accession #	P06865
GenBank Nucleotide #	NP_000511.2
NCBI Official Full Name	beta-hexosaminidase subunit alpha isoform 2 preproprotein
NCBI Official Synonym Full Names	hexosaminidase subunit alpha
NCBI Official Symbol	HEXA
NCBI Official Synonym Symbols	TSD
UniProt Protein Name	Beta-hexosaminidase subunit alpha
UniProt Synonym Protein Names	Beta-N-acetylhexosaminidase subunit alpha; Hexosaminidase subunit A; N-acetyl-beta-glucosaminidase subunit alpha
Protein Family	Beta-hexosaminidase
UniProt Gene Name	HEXA
UniProt Synonym Gene Names	Hexosaminidase subunit A
UniProt Entry Name	HEXA_HUMAN
NCBI Protein Information	beta-hexosaminidase subunit alpha
UniProt Comments for HEXA	HEXA: Responsible for the degradation of GM2 gangliosides, and a variety of other molecules containing terminal N-acetyl hexosamines, in the brain and other tissues. The form B is active against certain oligosaccharides. The form S has no measurable activity. Defects in HEXA are the cause of GM2-gangliosidosis type 1 (GM2G1); also known as Tay-Sachs disease. GM2- gangliosidosis is an autosomal recessive lysosomal storage disease marked by the accumulation of GM2 gangliosides in the neuronal cells. GM2G1 is characterized by GM2 gangliosides accumulation in the absence of HEXA activity, leading to neurodegeneration and, in the infantile form, death in early childhood. GM2G1 has an increased incidence among Ashkenazi Jews and French Canadians in eastern Quebec. It exists in several forms: infantile (most common and most severe), juvenile and adult (late onset). Belongs to the glycosyl hydrolase 20 family. Protein type: Carbohydrate Metabolism - amino sugar and nucleotide sugar; EC 3.2.1.52; Glycan Metabolism - glycosaminoglycan degradation; Glycan Metabolism - glycosphingolipid biosynthesis - ganglio series; Glycan Metabolism - glycosphingolipid biosynthesis - globo series; Glycan Metabolism - other glycan degradation; Hydrolase Chromosomal Location of Human Ortholog: 15q24.1 Cellular Component: azurophil granule; lysosomal lumen; membrane Molecular Function: acetylglucosaminyltransferase activity; beta-N-acetylhexosaminidase activity; protein heterodimerization activity Biological Process: chondroitin sulfate catabolic process; glycosaminoglycan biosynthetic process; glycosphingolipid metabolic process; hyaluronan catabolic process; keratan sulfate catabolic process Disease: Tay-sachs Disease
Research Articles on HEXA	**1.** Use of MLPA assay for detecting large copy number changes in the HEXA gene.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/hexa/8567315