HEXA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HEXA, Polyclonal Antibody
Full Product Name	HEXA Rabbit pAb
Product Gene Name	anti-HEXA antibody
Product Synonym Names	TSD
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	55kDa
OMIM	272800
3D Structure	ModBase 3D Structure for P06865
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 270-529 of human HEXA (NP_000511.2).
Cellular Localization	Lysosome
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HEXA antibody	Western Blot (WB)
Application Notes for anti-HEXA antibody	WB: 1:500-1:2000
Related Product Information for anti-HEXA antibody	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.
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	MBS8545692 is an antibody targeting HEXA. Also known as HEXA Rabbit pAb. Reactive in Human, Mouse. 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
NCBI Summary for HEXA	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. [provided by RefSeq, Jan 2016]
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.

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