IDE Antibody – Monoclonal

PRODUCT OVERVIEW

Product Name	IDE, Monoclonal Antibody
Full Product Name	IDE Monoclonal Antibody
Product Gene Name	anti-IDE antibody
Clonality	Monoclonal
Molecular Weight	54,240 Da
OMIM	146680
3D Structure	ModBase 3D Structure for P14735
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-IDE antibody	MBS8519290 is an antibody targeting IDE. Also known as IDE Monoclonal Antibody.
Other Notes	Small volumes of anti-IDE 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.

ADDITIONAL DETAILS

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

NCBI GI #	260099676
NCBI GeneID	3416
NCBI Accession #	NP_001159418.1
UniProt Primary Accession #	P14735
UniProt Secondary Accession #	Q5T5N2; B2R721; B7ZAU2; D3DR35
UniProt Related Accession #	P14735
GenBank Nucleotide #	NM_001165946.1
NCBI Official Full Name	insulin-degrading enzyme isoform 2
NCBI Official Synonym Full Names	insulin degrading enzyme
NCBI Official Symbol	IDE
NCBI Official Synonym Symbols	INSULYSIN
UniProt Protein Name	Insulin-degrading enzyme
UniProt Synonym Protein Names	Abeta-degrading protease; Insulin protease; Insulinase; Insulysin
Protein Family	IgM protease
UniProt Gene Name	IDE
UniProt Synonym Gene Names	Insulinase
NCBI Protein Information	insulin-degrading enzyme

NCBI Summary for IDE	This gene encodes a zinc metallopeptidase that degrades intracellular insulin, and thereby terminates insulins activity, as well as participating in intercellular peptide signalling by degrading diverse peptides such as glucagon, amylin, bradykinin, and kallidin. The preferential affinity of this enzyme for insulin results in insulin-mediated inhibition of the degradation of other peptides such as beta-amyloid. Deficiencies in this protein's function are associated with Alzheimer's disease and type 2 diabetes mellitus but mutations in this gene have not been shown to be causitive for these diseases. This protein localizes primarily to the cytoplasm but in some cell types localizes to the extracellular space, cell membrane, peroxisome, and mitochondrion. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described but have not been experimentally verified.[provided by RefSeq, Sep 2009]
UniProt Comments for IDE	Plays a role in the cellular breakdown of insulin, IAPP, glucagon, bradykinin, kallidin and other peptides, and thereby plays a role in intercellular peptide signaling. Degrades amyloid formed by APP and IAPP. May play a role in the degradation and clearance of naturally secreted amyloid beta-protein by neurons and microglia.
Research Articles on IDE	**1.** These results support the hypothesis that IDE gene expression in different areas of Alzheimer's patient's brains.
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