IDE Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IDE, Polyclonal Antibody
Full Product Name	IDE (Center) Rabbit pAb
Product Gene Name	anti-IDE antibody
Product Synonym Names	Insulin-degrading enzyme; Abeta-degrading protease; Insulin protease; Insulinase; Insulysin; IDE
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB12553
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Purity/Purification	Affinity Purified
OMIM	146680
3D Structure	ModBase 3D Structure for P14735
Immunogen	This IDE antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 406-435 amino acids from the central region of human IDE.
Cellular Localization	Cell Membrane, Cytoplasm, Membrane, Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-IDE antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-IDE antibody	WB: 1:2000 IHC: 1:10-50
Related Product Information for anti-IDE antibody	MBS8552368 is an antibody targeting IDE. Also known as IDE (Center) Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.
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 #	215274252
NCBI GeneID	3416
NCBI Accession #	P14735.4
UniProt Primary Accession #	P14735
UniProt Related Accession #	P14735

NCBI Official Full Name	Insulin-degrading enzyme
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
UniProt Entry Name	IDE_HUMAN
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	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. Belongs to the peptidase M16 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; Nuclear receptor co-regulator; Cell surface; EC 3.4.24.56 Chromosomal Location of Human Ortholog: 10q23-q25 Cellular Component: nucleoplasm; peroxisomal matrix; extracellular space; cell surface; mitochondrion; cytoplasm; plasma membrane; peroxisome; cytosol; nucleus Molecular Function: ubiquitin binding; protein homodimerization activity; zinc ion binding; beta-amyloid binding; metalloendopeptidase activity; ATPase activity; peptide binding; beta-endorphin binding; insulin binding; protein binding; glycoprotein binding; ATP binding; receptor binding Biological Process: negative regulation of proteolysis; positive regulation of protein oligomerization; proteolysis involved in cellular protein catabolic process; viral reproduction; protein heterooligomerization; beta-amyloid metabolic process; insulin receptor signaling pathway; hormone catabolic process; determination of adult life span; proteolysis; protein homooligomerization; protein homotetramerization
Research Articles on IDE	**1.** TUDCA also increased IDE expression in human hepatic cell line HepG2.
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