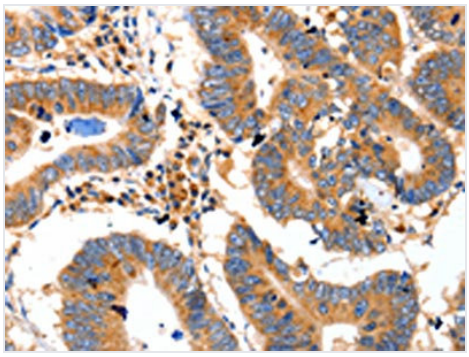
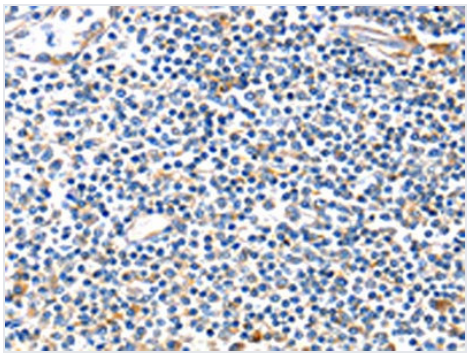
IDE Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

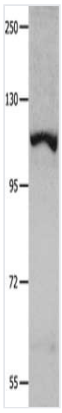
Product Name	IDE, Polyclonal Antibody
Full Product Name	IDE Antibody
Product Gene Name	anti-IDE antibody
Product Synonym Names	insulin-degrading enzyme
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	1019
OMIM	146680
3D Structure	ModBase 3D Structure for P14735
Immunogen	Fusion protein of human IDE
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-IDE antibody	Neuroscience
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-IDE antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-IDE antibody	ELISA: 1:2000-1:5000 WB: 1:500-1:2000 IHC: 1:10-1:50
Related Product Information for anti-IDE antibody	MBS7123824 is an antibody targeting IDE. Also known as IDE Antibody. Reactive in Human, Mouse, Rat. 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.



Immunohistochemistry (IHC)-Paraffin of anti-IDE antibody
The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using MBS7123824(IDE Antibody) at dilution 1/20, on the right is treated with fusion protein. (Original magnification: ×200)



Immunohistochemistry (IHC)-Paraffin of anti-IDE antibody
The image on the left is immunohistochemistry of paraffin-embedded Human tonsil tissue using MBS7123824(IDE Antibody) at dilution 1/20, on the right is treated with fusion protein. (Original magnification: ×200)



SDS-Page of anti-IDE antibody
Gel: 8%SDS-PAGE, Lysate: 40 ug, Lane: K652 cells, Primary antibody: MBS7123824(IDE Antibody) at dilution 1/350, Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution, Exposure time: 40 seconds

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 Secondary Accession #	Q5T5N2; B2R721; B7ZAU2; D3DR35
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; insulinase; insulin protease; Abeta-degrading protease
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.** Our study provided evidence to IDE, PON1, WFS1, POU2F1, IL1alpha and IL1beta associated with T2D in Pakistanis.
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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.

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