

Insulin Degrading Enzyme Rabbit mAb
Catalog # AP76553**Specification****Insulin Degrading Enzyme Rabbit mAb - Product Information**

Application	WB, IF
Primary Accession	P14735
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	117968

Insulin Degrading Enzyme Rabbit mAb - Additional Information

Gene ID 3416

Other Names

IDE

Dilution

WB~~1/500-1/1000

IF~~1/50-1/200

Format

Liquid

Insulin Degrading Enzyme Rabbit mAb - Protein Information**Name** IDE {ECO:0000303|PubMed:20364150, ECO:0000312|HGNC:HGNC:5381}**Function**

Plays a role in the cellular breakdown of insulin, APP peptides, IAPP peptides, natriuretic peptides, glucagon, bradykinin, kallidin, and other peptides, and thereby plays a role in intercellular peptide signaling (PubMed:10684867, PubMed:17051221, PubMed:17613531, PubMed:18986166, PubMed:19321446, PubMed:21098034, PubMed:2293021, PubMed:23922390, PubMed:24847884, PubMed:26394692, PubMed:26968463, PubMed:29596046). Substrate binding induces important conformation changes, making it possible to bind and degrade larger substrates, such as insulin (PubMed:23922390, PubMed:<a

[26394692](http://www.uniprot.org/citations/26394692), PubMed: [29596046](http://www.uniprot.org/citations/29596046)). Contributes to the regulation of peptide hormone signaling cascades and regulation of blood glucose homeostasis via its role in the degradation of insulin, glucagon and IAPP (By similarity). Plays a role in the degradation and clearance of APP-derived amyloidogenic peptides that are secreted by neurons and microglia (Probable) (PubMed: [26394692](http://www.uniprot.org/citations/26394692), PubMed: [9830016](http://www.uniprot.org/citations/9830016)). Degrades the natriuretic peptides ANP, BNP and CNP, inactivating their ability to raise intracellular cGMP (PubMed: [21098034](http://www.uniprot.org/citations/21098034)). Also degrades an aberrant frameshifted 40-residue form of NPPA (fsNPPA) which is associated with familial atrial fibrillation in heterozygous patients (PubMed: [21098034](http://www.uniprot.org/citations/21098034)). Involved in antigen processing. Produces both the N terminus and the C terminus of MAGEA3-derived antigenic peptide (EVDPIGHLI) that is presented to cytotoxic T lymphocytes by MHC class I.

Cellular Location

Cytoplasm, cytosol. Cell membrane {ECO:0000250|UniProtKB:P35559}. Secreted Note=Present at the cell surface of neuron cells. The membrane-associated isoform is approximately 5 kDa larger than the known cytosolic isoform

Tissue Location

Detected in brain and in cerebrospinal fluid (at protein level).

Insulin Degrading Enzyme Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Insulin Degrading Enzyme Rabbit mAb - Images



