

Goat anti-IDE (long isoform aa10-14)) Antibody
Peptide-affinity purified goat antibody
Catalog # AF4467a

Specification

Goat anti-IDE (long isoform aa10-14)) Antibody - Product Information

Application	WB, Pep-ELISA
Primary Accession	P14735
Other Accession	NP_004960.2 , NP_001159418.1
Reactivity	Human, Bovine
Host	Goat
Clonality	Polyclonal
Calculated MW	117968

Goat anti-IDE (long isoform aa10-14)) Antibody - Additional Information

Gene ID 3416

Other Names

IDE; insulin-degrading enzyme; INSULYSIN; Abeta-degrading protease; insulin protease; insulinase

Format

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat anti-IDE (long isoform aa10-14)) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat anti-IDE (long isoform aa10-14)) Antibody - 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](http://www.uniprot.org/citations/10684867), PubMed: [17051221](http://www.uniprot.org/citations/17051221), PubMed: [17613531](http://www.uniprot.org/citations/17613531), PubMed: [18986166](http://www.uniprot.org/citations/18986166), PubMed: [19321446](http://www.uniprot.org/citations/19321446), PubMed: [21098034](http://www.uniprot.org/citations/21098034), PubMed: [2293021](http://www.uniprot.org/citations/2293021))

target="_blank">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:26394692, PubMed: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, PubMed:9830016). Degrades the natriuretic peptides ANP, BNP and CNP, inactivating their ability to raise intracellular cGMP (PubMed:21098034). Also degrades an aberrant frameshifted 40-residue form of NPPA (fsNPPA) which is associated with familial atrial fibrillation in heterozygous patients (PubMed: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).

Goat anti-IDE (long isoform aa10-14)) Antibody - 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](#)

Goat anti-IDE (long isoform aa10-14)) Antibody - Images