ARG64293
anti-IDE / Insulysin antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes IDE / Insulysin
Tested Reactivity	Hu
Predict Reactivity	Dog
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognize both reported isoforms (NP_004960.1 and NP_001159418.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	IDE / Insulysin
Species	Human
Immunogen	C-QQYNFDRDNTE
Conjugation	Un-conjugated
Alternate Names	Insulysin; Abeta-degrading protease; Insulinase; EC 3.4.24.56; Insulin protease; INSULYSIN; Insulin-degrading enzyme

Application Instructions

Application table

Application	Dilution
IHC-P	2.5 µg/ml
WB	0.1 - 0.3 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

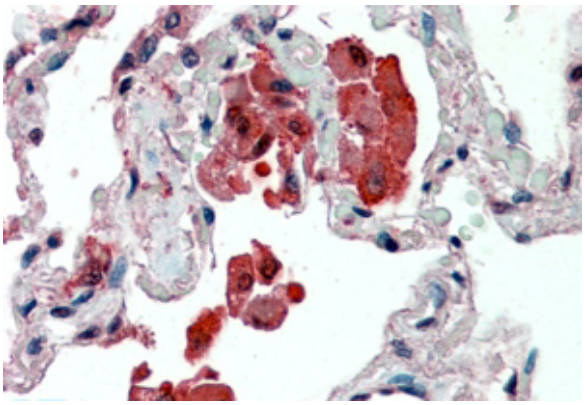
Form	Liquid
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

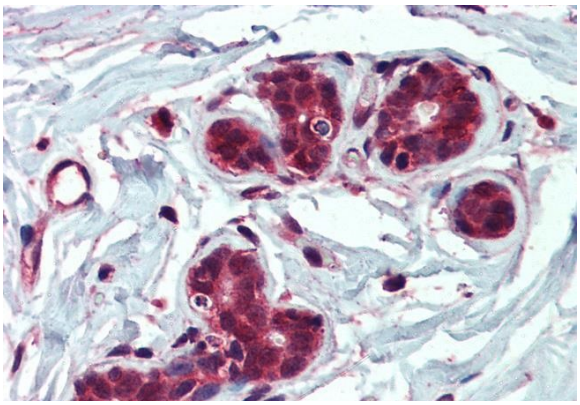
Database links	GeneID: 3416 Human Swiss-port # P14735 Human
Gene Symbol	IDE
Gene Full Name	insulin degrading enzyme
Background	This gene encodes a zinc metallopeptidase that degrades intracellular insulin, and thereby terminates insulins activity, as well as participating in intercellular peptide signalling 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]
Function	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. (Microbial infection) The membrane-associated isoform acts as an entry receptor for varicella-zoster virus (VZV). [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	118 kDa
PTM	The N-terminus is blocked.

Images



ARG64293 anti-IDE / Insulysin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human Lung. (Steamed antigen retrieval with Citrate buffer pH 6) stained with ARG64293 anti-IDE / Insulysin antibody at 2.5 µg/ml dilution followed by AP-staining.

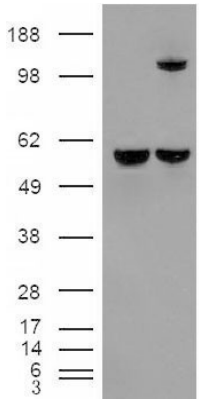


ARG64293 anti-IDE / Insulysin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64293 anti-IDE / Insulysin antibody at 2.5 µg/ml dilution followed by AP-staining.

ARG64293 anti-IDE / Insulysin antibody WB image

Western blot: K562 cell lysate (35 µg protein in RIPA buffer) stained with ARG64293 anti-IDE / Insulysin antibody at 0.1 µg/ml dilution.



ARG64293 anti-IDE / Insulysin antibody WB image

Western blot: 1). Mock transfection; 2) Insulysin expressing plasmid transfected HEK293 cell lysate stained with ARG64293 anti-IDE / Insulysin antibody.