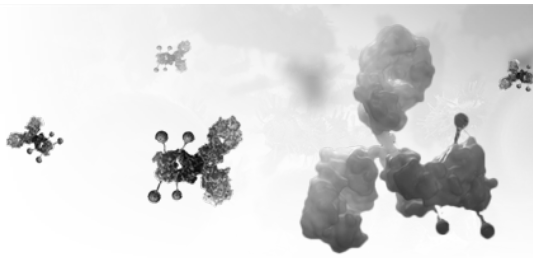

Anti-IDE (aa 920-1019) polyclonal antibody (DPAB-DC1658)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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 proteins function are associated with Alzheimers 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]
Immunogen	IDE (NP_004960, 920 a.a. ~ 1019 a.a) partial recombinant protein with GST tag. The sequence is RDNTEVAYLKTLTKEDIIKFYKEMLAVDAPRRHKVSVHVLAREMDSCPVVGEFPCQNDIN LSQAPALPQPEVIQNMTEFKRGLPLFPLVKPHINFMAAKL
Source/Host	Mouse
Species Reactivity	Human, Rat
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

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Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	IDE insulin-degrading enzyme [Homo sapiens (human)]
Official Symbol	IDE
Synonyms	IDE; insulin-degrading enzyme; INSULYSIN; insulinase; insulin protease; Abeta-degrading protease;
Entrez Gene ID	3416
Protein Refseq	NP_001159418
UniProt ID	P14735
Chromosome Location	10q23-q25
Pathway	Alzheimers disease; Alzheimers Disease;
Function	ATP binding; ATPase activity; beta-amyloid binding; beta-endorphin binding

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