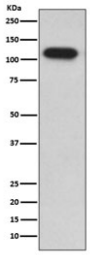
IDE Antibody / Insulin degrading enzyme [clone AOOB-9] (RQ5434)

Catalog No.	Formulation	Size
RQ5434	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Bulk quote request

Availability	1-2 weeks
Species Reactivity	Human
Format	Purified
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AOOB-9
Purity	Affinity purified
UniProt	P14735
Applications	Western Blot : 1:500-1:2000
Limitations	This IDE antibody is available for research use only.



Western blot testing of human HepG2 cell lysate with IDE antibody. Predicted molecular weight ~118 kDa.

Description

The IDE 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.

[RefSeq]

Application Notes

Optimal dilution of the IDE antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human Insulin-degrading enzyme / IDE was used as the immunogen for the IDE antibody.

Storage

Store the IDE antibody at -20oC.