

[KO Validated] Insulin-degrading enzyme (IDE) Rabbit pAb

Catalog No.: A1630 **KO** **Validated** **2 Publications**

Basic Information

Catalog No.

A1630

Observed MW

118kDa

Calculated MW

54kDa/117kDa

Category

Primary antibody

Applications

WB, IF

Cross-Reactivity

Human, Mouse

Recommended Dilutions

WB	1:500 - 1:2000
IF	1:10 - 1:100

Contact

 | www.abclonal.com

Background

This gene encodes a zinc metallopeptidase that degrades intracellular insulin, and thereby terminates insulin's 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 causative 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.

Immunogen Information

Gene ID	Swiss Prot
3416	P14735

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-250 of human Insulin-degrading enzyme (Insulin-degrading enzyme (IDE)) (NP_004960.2).

Synonyms

IDE;INSULYSIN

Product Information

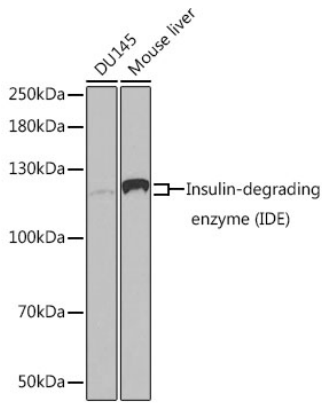
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

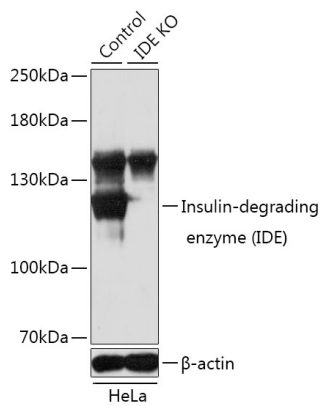
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

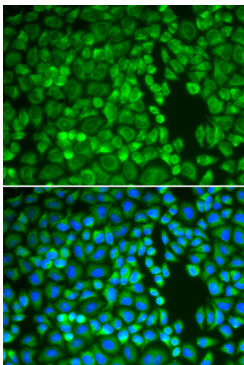
Validation Data



Western blot analysis of extracts of various cell lines, using Insulin-degrading enzyme (Insulin-degrading enzyme (IDE)) antibody (A1630) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020).



Western blot analysis of extracts from normal (control) and Insulin-degrading enzyme (Insulin-degrading enzyme (IDE)) knockout (KO) HeLa cells, using Insulin-degrading enzyme (Insulin-degrading enzyme (IDE)) antibody (A1630) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Immunofluorescence analysis of A549 cells using Insulin-degrading enzyme (Insulin-degrading enzyme (IDE)) antibody (A1630). Blue: DAPI for nuclear staining.