Product Name: IDE(3H4)Mouse Monoclonal Antibody
Catalog #: AMM12351
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC/IF
Reactivity	Human,Hamster
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	PBS, pH 7.4, containing 0.5%protective protein, 0.02% New type preservative N as Preservative and 50% Glycerol.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:50-1:300,ICC/IF 1:100-1:200
Molecular Weight	118kDa

Antigen Information

Gene Name	IDE
Alternative Names	IDE; Insulin-degrading enzyme; Abeta-degrading protease; Insulin protease; Insulinase; Insulysin
Gene ID	3416.0
SwissProt ID	P14735
Immunogen	Synthetic Peptide of IDE

Background

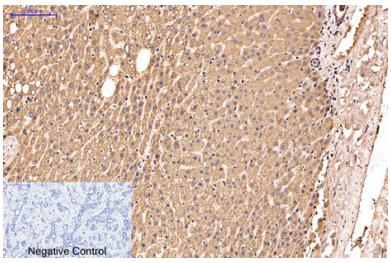
This gene encodes a zinc metallopeptidase that degrades intracellular insulin, and thereby terminates insulins activity, as well as

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 describecatalytic activity:Degradation of insulin, glucagon and other polypeptides. No action on proteins.,cofactor:Binds 1 zinc ion per subunit.,function:May play a role in the cellular processing of insulin. May be involved in intercellular peptide signaling.,PTM:The N-terminus is blocked.,similarity:Belongs to the peptidase M16 family.,subunit:Homodimer.,

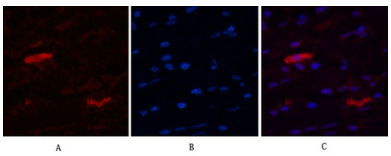
Research Area

Alzheimer's disease;

Image Data



Immunohistochemical analysis of paraffin-embedded Human-liver-cancer tissue. 1,IDE Monoclonal Antibody（3H4） was diluted at 1:200（4°C,overnight）. 2, Sodium citrate pH 6.0 was used for antibody retrieval（>98°C,20min）. 3,Secondary antibody was diluted at 1:200（room tempeRature, 30min）. Negative control was used by secondary antibody only.



Immunofluorescence analysis of Human-breast tissue. 1,IDE Monoclonal Antibody（3H4） （red） was diluted at 1:200（4°C,overnight）. 2, Cy3 labled Secondary antibody was diluted at 1:300（room temperature, 50min）.3, Picture B: DAPI（blue） 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

Western blot analysis of 1） Hela, 2） HepG2, diluted at 1:2000