

IDE Monoclonal Antibody(3H4)

Catalog No :	YM3083
Reactivity :	Human;Hamster
Applications :	WB;IHC;IF;
Target :	IDE
Fields :	>>Alzheimer disease
Gene Name :	IDE
Protein Name :	Insulin-degrading enzyme
Human Gene Id :	3416
Human Swiss Prot No :	P14735
Mouse Swiss Prot No :	Q9JHR7
Rat Gene Id :	25700
Rat Swiss Prot No :	P35559
Immunogen :	Synthetic Peptide of IDE
Specificity :	The antibody detects endogenous IDE proteins.
Formulation :	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source :	Monoclonal, Mouse
Dilution :	WB 1:1000 IF 1:200 IHC 1:50-300
Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 118kD

Cell Pathway : Alzheimer's disease;

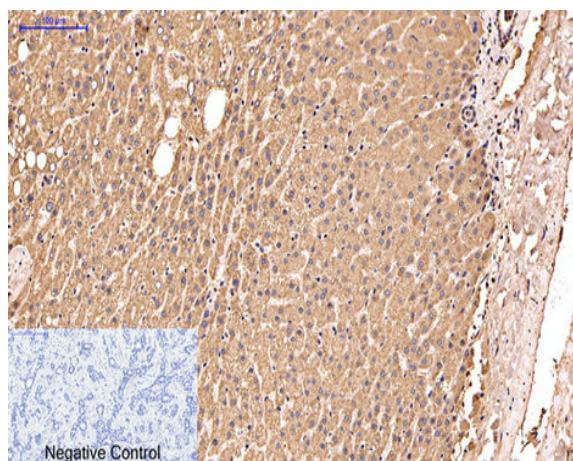
Background : This gene encodes a zinc metallopeptidase that degrades intracellular insulin, and thereby terminates insulin's activity, as well as participating in intercellular peptide signalling by degrading diverse peptides such as glucagon, amylin, bradykinin, and kallidin. The preferential affinity 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 describe

Function : catalytic 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.,

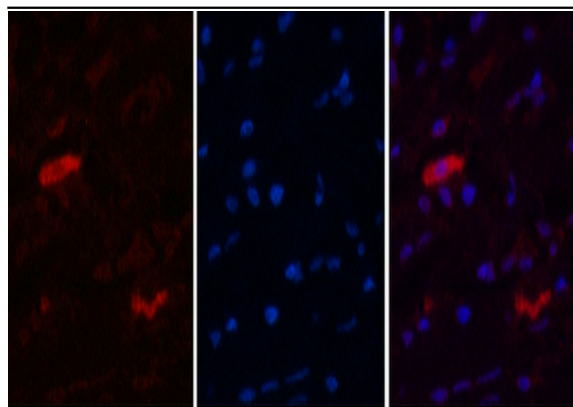
Subcellular Location : Cytoplasm, cytosol . Cell membrane . Secreted . Present at the cell surface of neuron cells. The membrane-associated isoform is approximately 5 kDa larger than the known cytosolic isoform.

Expression : Detected in brain and in cerebrospinal fluid (at protein level).

Products Images



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.



A

B

C

Immunofluorescence analysis of Human-breast tissue. 1, IDE Monoclonal Antibody(3H4)(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled 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

