For Research Use Only

Mouse BACE1 Recombinant monoclonal antibody, PBS Only

Catalog Number:88725-1-PBS

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Basic Information

Catalog Number:
88725-1-PBS

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG9474

GenBank Accession Number:
NM_011792.6

GeneID (NCBI):
23821

UNIPROT ID:
P56818

Full Name:
beta-site APP cleaving enzyme 1

Calculated MW:
56 kDa

Observed MW:
70-75 kDa, 42-56 kDa

Purification Method:
Protein A purification

CloneNo.:
261482B5

Applications

Tested Applications:
WB, IF/ICC, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

beta-secretase, encoded by BACE1(beta-stie amyloid beta A4 precursor protein-cleavage enzyem1) gene, is a neuron-specific membrane-associated protease that participate in the two step proteolytic processing of the APP. Cleaves at the N-terminus of the A-beta peptide sequence, between residues 671 and 672 of APP, leads to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated C-terminal fragment which is later released by gamma-secretase. It has a high expression in the brain and pancreas. This protein has 6 isoforms produced by alternative splicing. BACE1 can be detected with different molecular weight: 42-56kD (prozymogen and isoforms), 65-75 (glycosylated forms) and 160kDa (dimer) (PMID:22741101; 21795680).

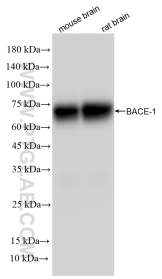
Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

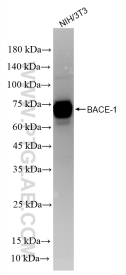
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

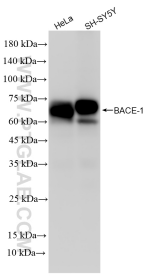
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88725-1-RR (BACE-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88725-1-PBS in a different storage buffer formulation.



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 88725-1-RR (BACE-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88725-1-PBS in a different storage buffer formulation.



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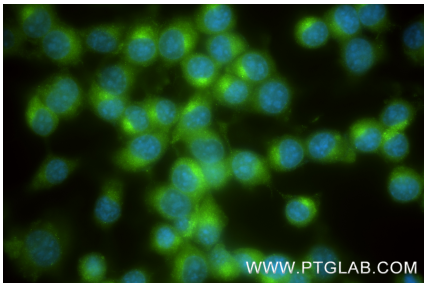
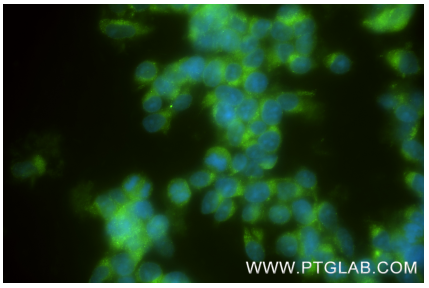
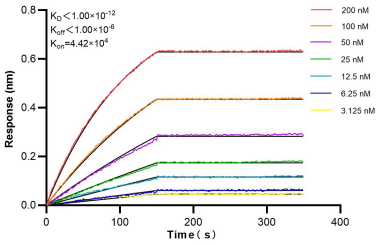


Immunofluorescent analysis of (-20°C Methanol) fixed Neuro-2a cells using BACE1 antibody (88725-1-RR, Clone: 261482B5) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 88725-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed SH-SY5Y cells using BACE1 antibody (88725-1-RR, Clone: 261482B5) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 88725-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 88725-1-RR against Mouse BACE were performed. The affinity constant is below 1 pM.