For Research Use Only

BACE1 Recombinant monoclonal antibody

Catalog Number:88725-1-RR

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Basic Information

Catalog Number:
88725-1-RR

Size:
100ul , Concentration: 1000 μg/ml by Nanodrop;

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

Recommended Dilutions:
WB: 1:5000-1:50000
IF/ICC: 1:50-1:500

Applications

Tested Applications:
WB, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : mouse brain tissue, HeLa cells, NIH/3T3 cells, SH-SY5Y cells, rat brain tissue

IF/ICC : Neuro-2a cells, SH-SY5Y cells

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

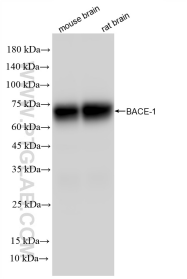
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

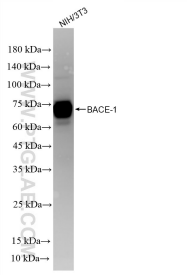
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

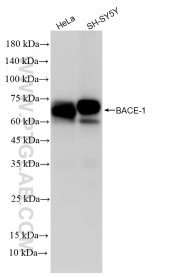
Selected Validation Data



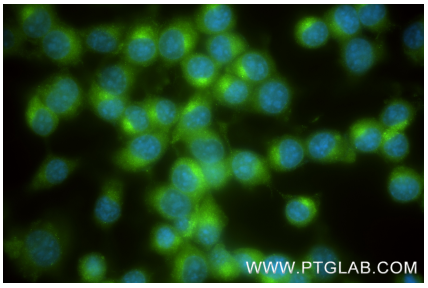
Various lysates were subjected to SDS PAGE followed by western blot with 88725-1-RR (BACE-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



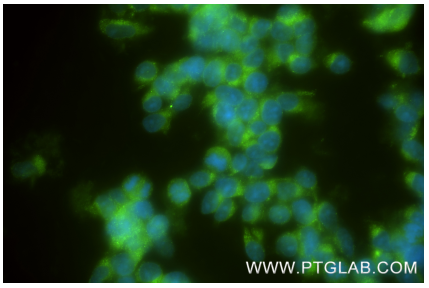
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 88725-1-RR (BACE-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



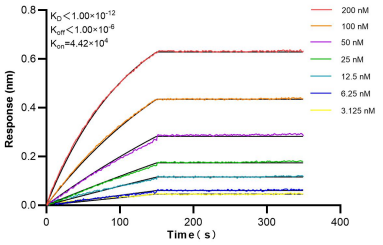
Various lysates were subjected to SDS PAGE followed by western blot with 88725-1-RR (BACE-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).



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).



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