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# BACE1 Recombinant monoclonal antibody

Catalog Number:88725-1-RR

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## Basic Information

Catalog Number:
88725-1-RR

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).

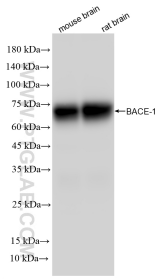
## Storage

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

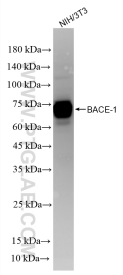
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

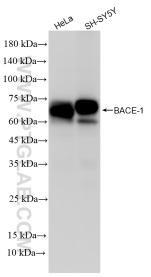
## Selected Validation Data




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.




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.

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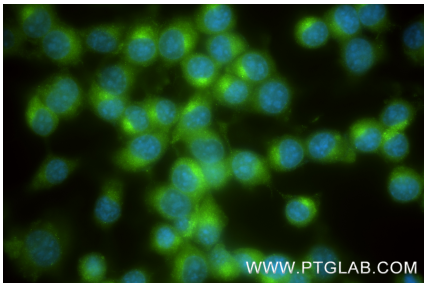
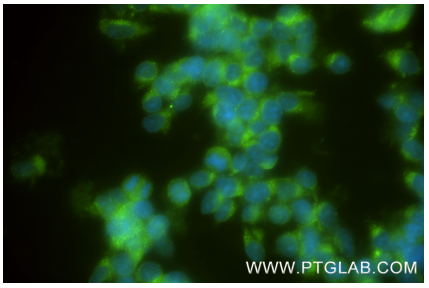
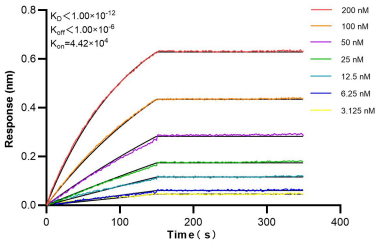



Immunofluorescent analysis of (-20°C Methanol) fixed Neuro-2a cells using BACE1 antibody (88725-1-RR, Clone: 261482B5 ) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).




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.