

# Product Datasheet

## **BACE-1 Antibody (3C1C3) - BSA Free NBP2-37261**

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 9/9/2025 v.20.1

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**NBP2-37261**

BACE-1 Antibody (3C1C3) - BSA Free

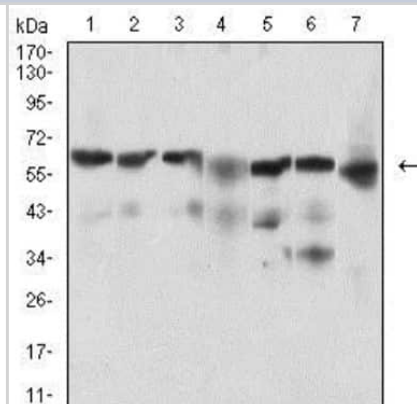
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3C1C3
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	55.7 kDa

Product Description	
Description	Novus Biologicals Mouse BACE-1 Antibody (3C1C3) - BSA Free (NBP2-37261) is a monoclonal antibody validated for use in WB, ELISA, Flow and ICC/IF. Anti-BACE-1 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	23621
Gene Symbol	BACE1
Species	Human, Mouse, Rat
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:33776747).
Immunogen	Purified recombinant fragment of human BACE-1 (AA: 112-324) expressed in E. Coli.

Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, CyTOF-ready
Recommended Dilutions	Western Blot 1:500 - 1:2000, Flow Cytometry 1:200 - 1:400, ELISA 1:10000, Immunocytochemistry/ Immunofluorescence 1:200 - 1:1000, CyTOF-ready
Application Notes	This antibody is Cytof ready.

**Images**

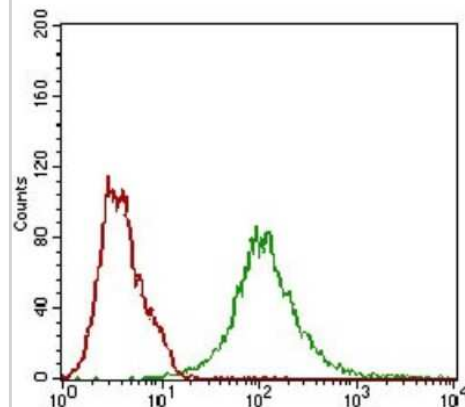
Western Blot: BACE-1 Antibody (3C1C3) [NBP2-37261] - Analysis using BACE1 mouse mAb against Hela (1), SK-N-SH (2), HepG2 (3), C6 (4), PC-12 (5), PANC-1 (6), NIH/3T3 (7) cell lysate.



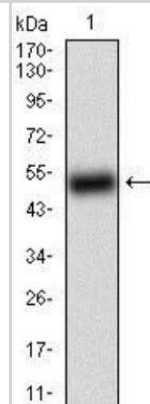
Immunocytochemistry/Immunofluorescence: BACE-1 Antibody (3C1C3) [NBP2-37261] - Analysis of MCF-7 cells using BACE1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Goat anti-Mouse IgG (H+L) DyLight 488 secondary antibody was used.



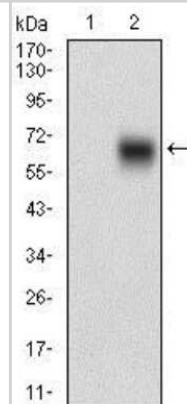
Flow Cytometry: BACE-1 Antibody (3C1C3) [NBP2-37261] - Analysis of Hela cells using BACE1 mouse mAb (green) and negative control (red).



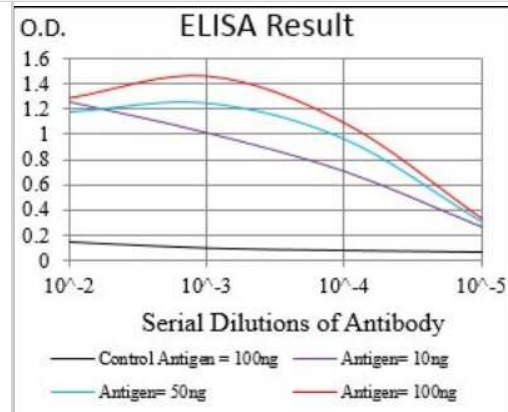
Western Blot: BACE-1 Antibody (3C1C3) [NBP2-37261] - Analysis using BACE1 mAb against human BACE1 (AA: 112-324) recombinant protein. (Expected MW is 49.9 kDa)



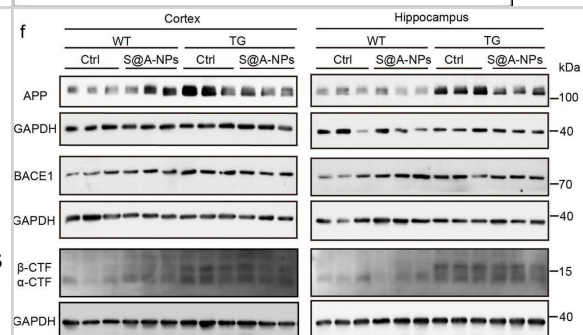
Western Blot: BACE-1 Antibody (3C1C3) [NBP2-37261] - Analysis using BACE1 mAb against HEK293 (1) and BACE1 (AA: 112-324)-hlgGfc transfected HEK293 (2) cell lysate.



ELISA: BACE-1 Antibody (3C1C3) [NBP2-37261] - Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);



S@A-NPs treatment suppresses amyloidogenic cleavage of APP, while enhancing transcytosis of A $\beta$  out of the brains of APP/PS1 transgenic mice. (a) Schematic description of experimental timeline. APP/PS1 mice were intravenously injected with S@A-NPs at 6 months of age and subjected to analysis of A $\beta$  clearance at 7 months of age. SF555-conjugated A $\beta$  oligomers were stereotactically injected into the hippocampal DG. (b, c) SF555-conjugated A $\beta$  remnants in the brains were shown 48 h after injection. Area of SF555-conjugated A $\beta$  oligomers occupied in the hippocampal DG (c). (d, e) ELISA analysis of A $\beta$ 42 (d) and A $\beta$ 40 (e) levels in the plasma. (f) WB analysis of levels of full-length APP, BACE1 and  $\alpha/\beta$ -CTF in the cortex and hippocampus. GAPDH was detected as a loading control. Relative levels of full-length APP (f, g), BACE1 (f, h),  $\beta$ -CTF (f, i), and  $\alpha$ -CTF (f, j). Data are presented as mean  $\pm$  SEM. n = 3 mice/group (c); n = 7–9 mice/group (d); n = 6–11 mice/group (e); n = 3–8 mice/group (g-j). \* p < 0.05; \*\* p < 0.01; \*\*\* p < 0.001. One-way ANOVA (c-e, g-j). Scale bars: 100  $\mu$ m (b) Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/40830501>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Pan T, Sun Y, Shi Y et al. Endothelial delivery of simvastatin by LRP1-targeted nanoparticles ameliorates pathogenesis of Alzheimer's disease in a mouse model Alzheimer's Research & Therapy 2025-08-20 [PMID: 40830501]

Lu MH, Ji WL, Chen H et al. Intranasal Transplantation of Human Neural Stem Cells Ameliorates Alzheimer's Disease-Like Pathology in a Mouse Model Frontiers in aging neuroscience 2021-03-10 [PMID: 33776747] (WB, Mouse)



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### **Products Related to NBP2-37261**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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