

Product Datasheet

BACE-2 Antibody (1/ 9) - Azide and BSA Free NBP2-81075-0.2mg

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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Updated 10/19/2023 v.20.1

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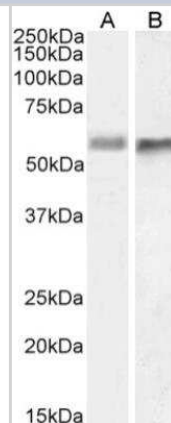
NBP2-81075-0.2mg

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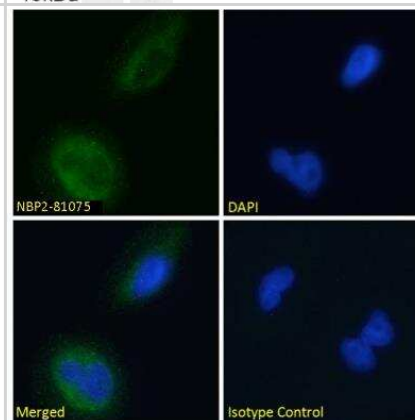
Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
Clonality	Monoclonal
Clone	1/ 9
Preservative	0.02% Proclin 300
Isotype	IgG1 Kappa
Purity	Protein A purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	25825
Gene Symbol	BACE2
Species	Human
Immunogen	Human BACE-2 244-333.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot, Immunohistochemistry, Immunocytochemistry/Immunofluorescence
Application Notes	This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG format, for improved compatibility with existing reagents, assays and techniques. The antibody binds specifically to BACE2, an enzyme responsible for the proteolytic cleavage of amyloid precursor protein (APP). The protein is cleaved between residues 690 and 691, leading to the formation of beta-cleaved soluble APP and a C-terminal membrane bound fragment (CTFbeta). The latter is then cleaved by gamma-secretase to generate amyloid beta peptide. BACE is the rate-limiting enzyme in the pathway, and is a potential target in the treatment of Alzheimer's Disease (AD), a neurodegenerative disorder characterised by amyloid beta plaques within the brain. The BACE2 protein is encoded in chromosome 21, in a region critical for the development of Down's Syndrome, and may play a role in the amyloid beta deposition in the disease.

Images

Western Blot: BACE-2 Antibody (1/ 9) [NBP2-81075] - Western Blot using anti-BACE2 antibody (1/9) [NBP2-81075]. HeLa (A) and U251 (B) cell lysate samples (35ug protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric mouse IgG1 version of 1/9 [NBP2-81075] at 1 ug/ml before detection using an anti-mouse secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The predicted running size for BACE2 is 56.2 kDa. NBP2-81075 successfully detected BACE2 in HeLa and U251 cell lysate samples.



Immunocytochemistry/Immunofluorescence: BACE-2 Antibody (1/ 9) [NBP2-81075] - Immunofluorescence staining of fixed U251 cells with BACE-2 Antibody (1/ 9) [NBP2-81075]. Immunofluorescence analysis of paraformaldehyde fixed U251 cells permeabilized with 0.15% Triton and stained with the chimeric mouse IgG1 version of 1/9 [NBP2-81075] at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2 ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom NBP2-81075, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-unknown specificity antibody followed by Alexa Fluor 488 secondary antibody.





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Products Related to NBP2-81075-0.2mg

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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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