Datasheet for ABIN3043754

anti-Nerve Growth Factor antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	Nerve Growth Factor (NGF)
Binding Specificity:	AA 162-173, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Beta-nerve growth factor(NGF) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human NGF(162-173aa EVNINNSVFKQY), identical to the related rat sequence, and different from the related mouse sequence by one amino acid.
Sequence:	EVNINNSVFK QY
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Beta-nerve growth factor(NGF) detection. Tested with WB in

Product Details

	Human,Mouse,Rat. Gene Name: nerve growth factor(beta polypeptide) Protein Name: Beta-nerve growth factor(Beta-NGF)
Purification:	Immunogen affinity purified.

Target Details

Target:	Nerve Growth Factor (NGF)
Alternative Name:	NGF (NGF Products)
Background:	Nerve growth factor is a polypeptide involved in the regulation of growth and differentiation of sympathetic and certain sensory neurons. The nucleotide sequence of human and mouse beta-NGF are very similar. The beta-subunits of nerve growth factor(NGFB) have been assigned to mouse chromosome 3 and human chromosome 1p22. The human gene for the beta subunit of nerve growth factor is located on the proximal short arm of chromosome 1. A mutation in the nerve growth factor beta gene(NGFB) causes loss of pain perception. Synonyms: Beta nerve growth factor antibody|Beta nerve growth factor precursor antibody|Beta NGF antibody|Beta-nerve growth factor antibody|Beta-NGF antibody|HSAN5 antibody|MGC161426 antibody|MGC161428 antibody|Nerve growth factor beta antibody|Nerve growth factor beta polypeptide antibody|Nerve growth factor beta subunit antibody|NGF antibody|NGF B antibody|NGF_HUMAN antibody|NGFB antibody|NID67 antibody
UniProt:	P01138
Pathways:	Regulation of Cell Size

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:

Mao, Lu, Wang, Tian, Huang, Feng, Zhang, Chang: "Role of PI3K p110β in the differentiation of human embryonic stem cells into islet-like cells." in: **Biochemical and biophysical research communications**, Vol. 488, Issue 1, pp. 109-115, (2017) (PubMed).

Wang, Zhou, Zhang, Wu, Zhang, Zhang: "Identification and localization of gastrointestinal hormones in the skin of the bullfrog Rana catesbeiana during periods of activity and hibernation." in: **Acta histochemica**, Vol. 116, Issue 8, pp. 1418-26, (2014) (PubMed).

Chen, He, Peng, Liu, Jin, Cao, Wang, Xiao: "An immunohistochemical study of somatostatin in the stomach and the small intestine of the African ostrich (Struthio camelus)." in: **Tissue & cell**, Vol. 45, Issue 6, pp. 363-6, (2013) (PubMed).

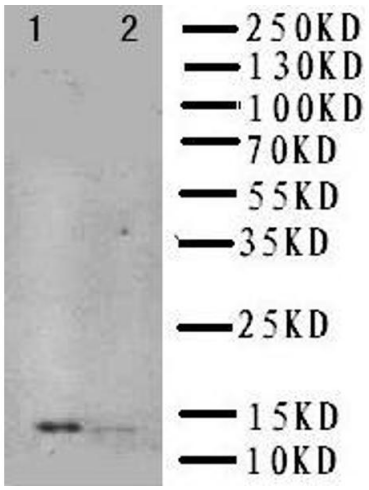
Jiang, Deng, Duan, Chen, Xiang, Lu, Ma: "Somatostatin receptors SSTR2 and SSTR5 are expressed in the human thoracic duct." in: **Lymphology**, Vol. 44, Issue 1, pp. 21-8, (2011) (PubMed).

Zong, Chen, Zhang, Zou: "Effects of intra-gastric beta-casomorphin-7 on somatostatin and gastrin gene expression in rat gastric mucosa." in: **World journal of gastroenterology**, Vol. 13,

Issue 14, pp. 2094-9, (2007) (PubMed).

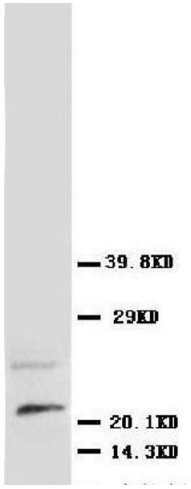
There are more publications referencing this product on: Product page

Validation report #300031 for Immunohistochemistry (IHC)



Western Blotting

Image 1. Anti-NGF antibody, Western blotting Lane 1: Recombinant Human NGFB Protein 10ng Lane 2: Recombinant Human NGFB Protein 5ng



Western Blotting

Image 2. Anti-NGF antibody, Western blotting WB: Rat Brain Tissue Lysate

