Datasheet for ABIN7043556

anti-Nerve Growth Factor antibody (Pro-Domain)

3 Images

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Overview

Quantity:	25 µL
Target:	Nerve Growth Factor (NGF)
Binding Specificity:	AA 84-104, Pro-Domain
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Nerve Growth Factor antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)SPRVLFSTQPPPTSSDTLDLD, corresponding to amino acid residues 84-104 of rat NGF (precursor)
Isotype:	IgG
Cross-Reactivity (Details):	The antibody is specific for proNGF, it does not crossreact with proBDNF, proNT-3 or mature NGF.
Characteristics:	Anti-proNGF Antibody is directed against rat proNGF. Anti-proNGF Antibody (ABIN7043556, ABIN7044751 and ABIN7044752)) can be used in western blot and immunohistochemical applications. The antibody specifically reacts with proNGF. It has been designed to recognize proNGF from mouse, rat and human samples. \nRelated products for neutralizing proNGF activity: \nMouse NGF/proNGF Neutralizing Antibody (#) can be used in indirect ELISA and

Product Details

	neutralization assays to block the biological effects of both NGF and proNGF.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	Nerve Growth Factor (NGF)
Alternative Name:	proNGF (NGF Products)
Background:	Alternative names: proNGF, Nerve growth factor precursor
Gene ID:	310738
NCBI Accession:	NM_002506
UniProt:	P25427
Pathways:	Regulation of Cell Size

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

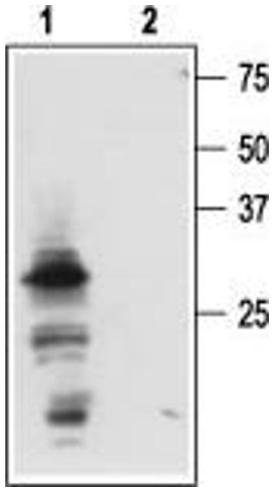
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week.

Handling

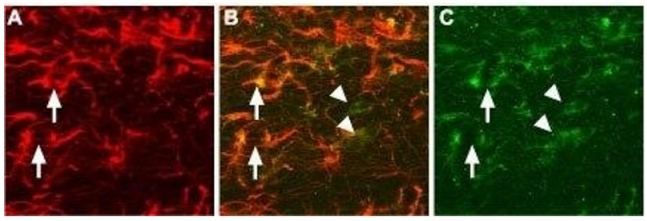
For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



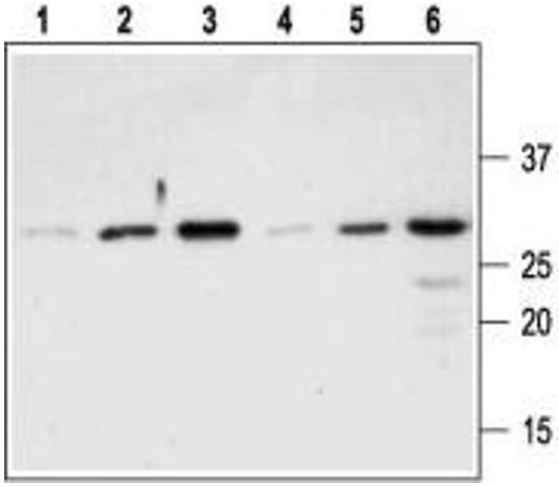
Western Blotting

Image 1. Western blot analysis of mouse submandibular glands (SMGs): - 1. Anti-proNGF Antibody (ABIN7043556, ABIN7044751 and ABIN7044752), (1:200).2. Anti-proNGF Antibody, preincubated with proNGF Blocking Peptide (#BLP-NT005).



Immunohistochemistry

Image 2. Expression of proNGF in rat brain sections - Immunohistochemical staining of proNGF in rat brain sections using Anti-proNGF Antibody (ABIN7043556, ABIN7044751 and ABIN7044752). A. Staining of astrocytes was performed using mouse anti-glial fibrillary acidic protein (GFAP) (red). B. Co-localization between GFAP and proNGF (orange). C. Staining of proNGF (green).



Western Blotting

Image 3. Western blot analysis of Recombinant mouse proNGF protein (#N-250), (lanes 1-3) and Recombinant human proNGF protein (#N-280), (lanes 4-6): - 1,4. 100 ng + Anti-proNGF Antibody ((ABIN7043556, ABIN7044751 and ABIN7044752), (1:200).2,5. 250 ng + Anti-proNGF Antibody (1:200).3,6. 500 ng + Anti-proNGF Antibody (1:200).