Datasheet for 600-401-DA5

NGFR Antibody

Overview

Description:	Anti-NGFR (RABBIT) Antibody - 600-401-DA5
Item No.:	600-401-DA5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	The tumor necrosis factor (TNF) and TNF receptor (TNFR) gene superfamilies regulate numerous biological functions including cell proliferation, differentiation, and survival through regulating the activation of the transcription factor NF-kB and various mitogen-activated protein kinases. Nerve growth factor receptor (NGFR) was one of the earliest characterized members of this family. Also known as the low-affinity receptor p75NTR, this receptor is involved in several diverse functions such as apoptosis, neurite outgrowth during development, and myelination. Its ligands include NGF, brain-derived neurotrophic factor (BDNF), NT3, and NT4. NGFR can also associate with other NGF receptors such as Trk through the cytosolic and transmembrane domains and thus can function as a co-receptor that refines Trk affinity and specificity for neurotrophins. Finally, upon binding of various neurotrophins, NGFR associates with tumor necrosis factor receptor-6 (TRAF6), suggesting that it can potentially function as a signal transducer for NGF signals through NGFR.
Synonyms:	NGFR Antibody, CD271, p75NTR, TNFRSF16, p75(NTR), Gp80-LNGFR, Tumor necrosis factor receptor superfamily member 16, NGF receptor
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NGFR
Reactivity:	Human, Mouse

Immunogen Type:	Recombinant Protein
Immunogen:	Anti-NGFR antibody was prepared from whole rabbit serum produced by repeated immunizations with purified recombinant human NGFR.
Purity/Specificity:	Anti-NGFR Antibody is Protein A purified. Cross reactivity with NGFR from other sources has not been determined.
Relevant Links:	• UniProtKB - P08138 • GeneID - 4804 • NCBI - NP_002498

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-NGFR Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry, and immunofluorescence. Expect a band at approximately 45 kDa in Western Blots of specific cell lysates and tissues. Western Blot and Immunofluorescence tested in human samples, Immunocytochemistry in mouse samples. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20µg/mL
WB:	1 µg/mL

Formulation

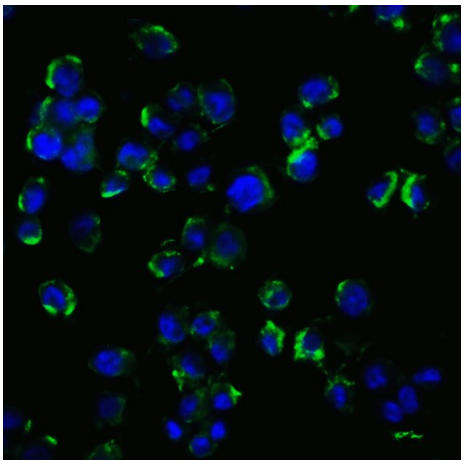
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

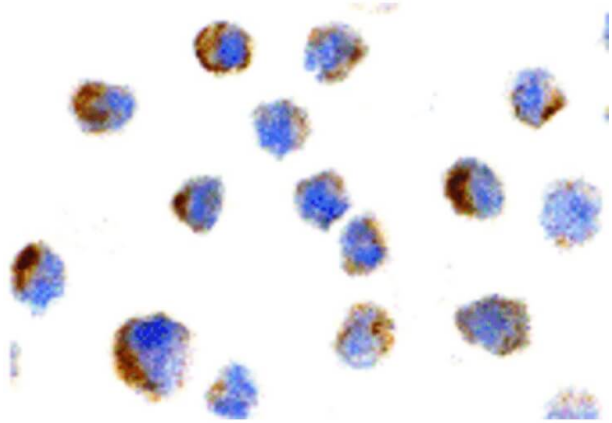
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

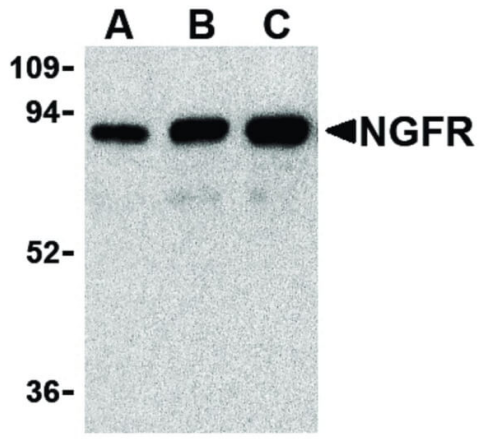
Images



Immunofluorescence Microscopy
Immunofluorescence of NGFR in HepG2 cells with NGFR antibody at 20 µg/mL.
Green: NGFR Antibody.
Blue: DAPI staining.



Immunohistochemistry
Immunocytochemistry of NGFR antibody. Cell Type: A20 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: NGFR antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: NGFR is located in the cell membrane. Staining: NGFR is stained brown with hematoxylin purple counterstain.



Western Blot

Western Blot of NGFR antibody. Lane A: 25 ng of purified recombinant NGFR. Lane B: 50 ng of purified recombinant NGFR. Lane B: 100 ng of purified recombinant NGFR. Load: 35 µg per lane. Primary antibody: NGFR antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 45 kDa, 92 kDa for NGFR. Other band(s): NGFR splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.