

Datasheet: AHP1014

Description:	RABBIT ANTI HUMAN CD271
Specificity:	CD271
Other names:	NGFR
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to CD271 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Recombinant human CD271

**External Database
Links**

UniProt:

[P08138](#) [Related reagents](#)

Entrez Gene:

[4804](#) NGFR [Related reagents](#)

Synonyms

TNFRSF16

Specificity

Rabbit anti Human CD271 antibody recognises CD271, a transmembrane protein of ~70-75 kDa, otherwise known as Nerve Growth Factor Receptor (NGFR). It is a pro-apoptotic member of the tumour necrosis factor receptor (TNFR) family and its ligands include NGF, brain derived growth neurotrophic factor (BDNF), NT3 and NT4. CD271 has been shown to interact with tropomyosin-receptor-kinase A (TrkA) forming the high-affinity NGF receptor, while CD271 can signal alone, constituting the low-affinity NGF receptor. When signalling alone, CD271 is involved in apoptosis, neurite outgrowth during development and myelination. Mutations and changes in CD271 expression have been implicated in various pathological diseases including Alzheimer's Disease, cerebral oedema and retinoblastoma.

Western Blotting

AHP1014 detects a band of approximately 75-80kDa in A-20 cell lysate.

Further Reading

1. Johnson, D. *et al.* (1986) Expression and structure of the human NGF receptor. [Cell. 47: 545-554.](#)
2. Nykjaer, A. *et al.* (2005) p75NTR- live or let die. [Curr. Opin. Neurobio. 15: 49-57.](#)
3. Schor, N. (2005) The p75 neurotrophin receptor in human development and disease. [Prog. Neurobiol. 77: 201-214.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@549](#), [DyLight@649](#),
[DyLight@680](#), [DyLight@800](#)

Recommended Useful Reagents

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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'M283048:160223'

Printed on 30 Apr 2018

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