

Product datasheet

Anti-GDNF Receptor alpha 2/GFRA2 antibody ab8027

[5 References](#) [2 Images](#)

Overview

Product name	Anti-GDNF Receptor alpha 2/GFRA2 antibody
Description	Rabbit polyclonal to GDNF Receptor alpha 2/GFRA2
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>Members of the glial cell line-derived neurotrophic factor(GDNF) family, including GDNF and neurturin (NTN),play key roles in the control of vertebrate neuron survivaland differentiation. Physiological responses to NTN requirethe presence of a novel glycosylphosphadidylinositollinked protein NTN_{Ra}, which is a cell surface receptor forNTN. The cDNAs encoding NTN_{Ra} from human, rat,chicken, and mouse have been cloned recently. NTN_{Ra} was also termed GDNFR_b, Ret ligand 2 (RETL2)or TGF-β-related neurotrophic factor receptor 2 (TmR2) and nominated as GF_{Ra}-2 recently. GF_{Ra}-2 binds NTN and mediates activation of RET receptor tyrosine kinase by both NTN and GDNF. Thus, NTN, GF_{Ra}-2, and the Ret PTK form a complex to transduce NTN signal andto mediate NTN function.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide
Purity	Ion Exchange Chromatography
Primary antibody notes	Members of the glial cell line-derived neurotrophic factor(GDNF) family, including GDNF and

neurturin (NTN), play key roles in the control of vertebrate neuron survival and differentiation. Physiological responses to NTN require the presence of a novel glycosylphosphatidylinositol-linked protein NTN α , which is a cell surface receptor for NTN. The cDNAs encoding NTN α from human, rat, chicken, and mouse have been cloned recently. NTN α was also termed GDNFR β , Ret ligand 2 (RETL2) or TGF- β -related neurotrophic factor receptor 2 (TrMR2) and nominated as GFR α -2 recently. GFR α -2 binds NTN and mediates activation of RET receptor tyrosine kinase by both NTN and GDNF. Thus, NTN, GFR α -2, and the Ret PTK form a complex to transduce NTN signal and to mediate NTN function.

Clonality Polyclonal
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab8027 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 μ g/ml.
WB		Use at an assay dependent concentration.

Target

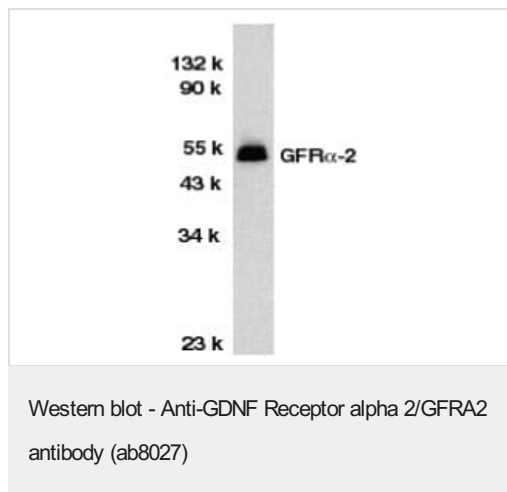
Function Receptor for neurturin. Mediates the NRTN-induced autophosphorylation and activation of the RET receptor. Also able to mediate GDNF signaling through the RET tyrosine kinase receptor. Isoform 2: Participates to NRTN-induced 'Ser-727' phosphorylation of STAT3.

Tissue specificity Isoform 1 is found in both brain and placenta.

Sequence similarities Belongs to the GDNFR family.

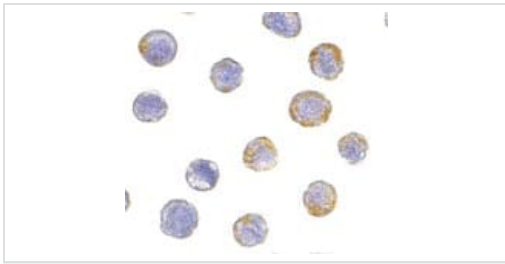
Cellular localization Cell membrane.

Images



Anti-GDNF Receptor alpha 2/GFRA2 antibody (ab8027) at 1/1000 dilution + HeLa total cell lysate

Observed band size: 52 kDa



ab8027 at 5µg/ml staining GDNF Receptor alpha2/GFRA2 in HeLa cells by ICC/IF.

Immunocytochemistry/ Immunofluorescence - Anti-GDNF Receptor alpha 2/GFRA2 antibody (ab8027)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors