Product datasheet

Anti-GDNF Receptor alpha 2/GFRA2 antibody ab8027

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, IHC (PFA fixed)
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: Synthetic peptide corresponding to Human GDNF Receptor alpha 2/GFRA2 aa 377-391. (Peptide available as ab39769)
Positive control: HeLa whole cell lysate
General 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 NTNRa, which is a cell surface receptor for NTN. The cDNAs encoding NTNRa from human, rat, chicken, and mouse have been cloned recently. NTNRa was also termed GDNFRb, Ret ligand 2 (RETL2) or TGF-b-related neurotrophic factor receptor 2 (TrnR2) and nominated as GFRa-2 recently. GFRa-2 binds NTN and mediates activation of RET receptor tyrosine kinase by both NTN and GDNF. Thus, NTN, GFRa-2, and the Ret PTK form a complex to transduce NTN signal and to mediate NTN function.

This product was previously labelled as GDNF Receptor alpha 2

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C.
Storage buffer: 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 NTNRa, which is a cell surface receptor for NTN. The cDNAs encoding NTNRa from human, rat, chicken, and mouse have been cloned recently.
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Clonality: Polyclonal
Isotype: IgG

Applications

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.

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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 5 µg/ml.</td>
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<tr>
<td>WB</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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<td>IHC (PFA fixed)</td>
<td>1/50</td>
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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

why is the actual band size different from the predicted?
ab8027 at 5µg/ml staining GDNF Receptor alpha2/GFRA2 in Hela cells by ICC/IF.

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

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