Product datasheet

Anti-TrkB antibody ab33655

Overview

Product name Anti-TrkB antibody
Description Rabbit polyclonal to TrkB
Host species Rabbit
Tested applications Suitable for: ICC/IF, IHC-P, IP, WB
Species reactivity Reacts with: Mouse, Rat, Human
Immunogen The entire extracellular domain (corresponding to residues 1 to 429) of rat TrkB.
Positive control Mouse brain membrane protein preparation.

Properties

Form Liquid
Storage buffer pH: 7.40
Preservative: 0.05% Sodium azide
 Constituents: 0.184% Tris glycine, 30% Glycerol, 0.87% Sodium chloride
Purity Protein A purified
Clonality Polyclonal
Isotype IgG

Applications

Our Abpromise guarantee covers the use of ab33655 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 19923466</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 22646479</td>
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</tbody>
</table>
Function

Receptor for brain-derived neurotrophic factor (BDNF), neurotrophin-3 and neurotrophin-4/5 but not nerve growth factor (NGF). Involved in the development and/or maintenance of the nervous system. This is a tyrosine-protein kinase receptor. Known substrates for the TRK receptors are SHC1, PI-3 kinase, and PLC-gamma-1.

Tissue specificity

Isoform TrkB is widely expressed, mainly in the nervous tissue. In the CNS, expression is observed in the cerebral cortex, hippocampus, thalamus, choroid plexus, granular layer of the cerebellum, brain stem, and spinal cord. In the peripheral nervous system, it is expressed in many cranial ganglia, the ophthalmic nerve, the vestibular system, multiple facial structures, the submaxillary glands, and dorsal root ganglia. Isoform TrkB-T1 is expressed in multiple tissues, mainly in brain, pancreas, kidney and heart. Isoform TrkB-T-Shc is predominantly expressed in brain.

Sequence similarities


Post-translational modifications

Ligand-mediated auto-phosphorylation.

Cellular localization

Membrane.

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<tr>
<td>IP</td>
<td>🌟🌟🌟🌟🌟</td>
<td>Use at an assay dependent concentration. PubMed: 23729812</td>
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<tr>
<td>WB</td>
<td>🌟🌟🌟🌟🌟</td>
<td>Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 145 kDa (predicted molecular weight: 92 kDa).</td>
</tr>
</tbody>
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Target

Function

Receptor for brain-derived neurotrophic factor (BDNF), neurotrophin-3 and neurotrophin-4/5 but not nerve growth factor (NGF). Involved in the development and/or maintenance of the nervous system. This is a tyrosine-protein kinase receptor. Known substrates for the TRK receptors are SHC1, PI-3 kinase, and PLC-gamma-1.

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Images
Anti-TrkB antibody (ab33655) at 1 µg/ml + Mouse brain membrane protein

**Predicted band size:** 92 kDa

Immunohistochemical analysis of paraffin embedded mouse P29-RA lung section (10µm thick) labelling TrkB with ab33655 at 1:200 dilution. The secondary antibody was a peroxidase-labeled, polymer-conjugated goat anti-rabbit secondary antibody. Sections were stained with hematoxylin and eosin (H&E). Red arrow indicates bronchiolar epithelial cells, green arrow indicates type II pneumocyte and blue arrow indicates endothelial cells.

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