abcam

Product datasheet

Anti-GDNF antibody [EPR2714(N)] ab176564

Recombinant RabMAb

★★★★★ 3 Abreviews 17 References 3 Images

Overview

Product name Anti-GDNF antibody [EPR2714(N)]

Description Rabbit monoclonal [EPR2714(N)] to GDNF

Host species Rabbit

Specificity GDNF homodimerizes and has 5 isoforms along with a signal and propeptide, so there is a

potential for multiple bands in western blot.

Tested applications Suitable for: Flow Cyt (Intra), WB

Unsuitable for: ICC/IF,IHC-P or IP

Species reactivity Reacts with: Human

Predicted to work with: Mouse, Rat

Immunogen Synthetic peptide within Human GDNF aa 50-150 (Cysteine residue). The exact sequence is

proprietary.

Database link: P39905

Positive control SH-SY5Y and HepG2 whole cell lysate (ab7900), SH-SY5Y cells.

General notes This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply

- Animal-free production

For more information see here.

Our $\mathsf{RabMAb}^{\texttt{®}}$ technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

Storage buffer pH: 7.20

Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA

Purity Protein A purified

Clonality Monoclonal
Clone number EPR2714(N)

Isotype IgG

Applications

The Abpromise guarantee

Our Abpromise guarantee covers the use of ab176564 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
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal lgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (2)	1/1000 - 1/10000. Predicted molecular weight: 24 kDa. GDNF homodimerizes and has 5 isoforms along with a signal and propeptide, so there is a potential for multiple bands in western blot.

Application notes

Is unsuitable for ICC/IF,IHC-P or IP.

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Function Neurotrophic factor that enhances survival and morphological differentiation of dopaminergic

neurons and increases their high-affinity dopamine uptake.

Tissue specificity In the brain, predominantly expressed in the striatum with highest levels in the caudate and lowest

in the putamen.

Involvement in disease Defects in GDNF may be a cause of Hirschsprung disease (HSCR) [MIM:142623]. In association

with mutations of RET gene, defects in GDNF may be involved in Hirschsprung disease. This genetic disorder of neural crest development is characterized by the absence of intramural

ganglion cells in the hindgut, often resulting in intestinal obstruction.

Defects in GDNF are a cause of congenital central hypoventilation syndrome (CCHS)

[MIM:209880]; also known as congenital failure of autonomic control or Ondine curse. CCHS is a rare disorder characterized by abnormal control of respiration in the absence of neuromuscular or lung disease, or an identifiable brain stem lesion. A deficiency in autonomic control of respiration

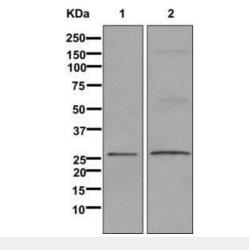
results in inadequate or negligible ventilatory and arousal responses to hypercapnia and

hypoxemia.

Sequence similaritiesBelongs to the TGF-beta family. GDNF subfamily.

Cellular localization Secreted.

Images



Western blot - Anti-GDNF antibody [EPR2714(N)] (ab176564)

All lanes : Anti-GDNF antibody [EPR2714(N)] (ab176564) at 1/1000 dilution

Lane 1 : SH-SY5Y cell lysate
Lane 2 : HepG2 cell lysate

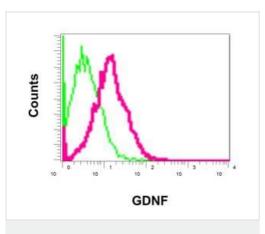
Lysates/proteins at 10 µg per lane.

Secondary

All lanes: Goat anti-rabbit HRP at 1/2000 dilution

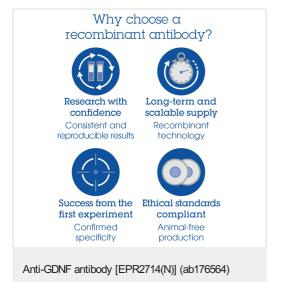
Developed using the ECL technique.

Predicted band size: 24 kDa



Flow Cytometry (Intracellular) - Anti-GDNF antibody [EPR2714(N)] (ab176564)

Intracellular Flow Cytometry analysis of permeabilized SH-SY5Y cells labeling GDNF (red) with ab176564 at a 1/10 dilution, or negative control rabbit IgG (green)



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