

Product datasheet

Anti-p75 NGF Receptor antibody [8J2] ab245134

[1 References](#) [4 Images](#)

Overview

Product name	Anti-p75 NGF Receptor antibody [8J2]
Description	Mouse monoclonal [8J2] to p75 NGF Receptor
Host species	Mouse
Tested applications	Suitable for: WB, Flow Cyt, ICC/IF, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment (His-tag) corresponding to Human p75 NGF Receptor aa 1-250 (extracellular). Database link: P08138 Run BLAST with Run BLAST with
Positive control	ICC/IF: C6 cells. Flow Cyt: SH-SY5Y and C6 cells. IP: p75 NGF Receptor IP in C6 cell lysate. WB: Mouse p75 NGF Receptor-transfected cells. SH-SY5Y and C6 cell lysate.
General notes	<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	Lyophilized: Reconstitute with 100 microlitre sterile water. Centrifuge to remove any insoluble material. Final buffer contains no preservatives.
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 Constituents: PBS, 3% Trehalose pH 7.2 - 7.6
Purity	Protein A purified
Purification notes	Purified from TCS.

Clonality	Monoclonal
Clone number	8J2
Isotype	IgG2a

Applications

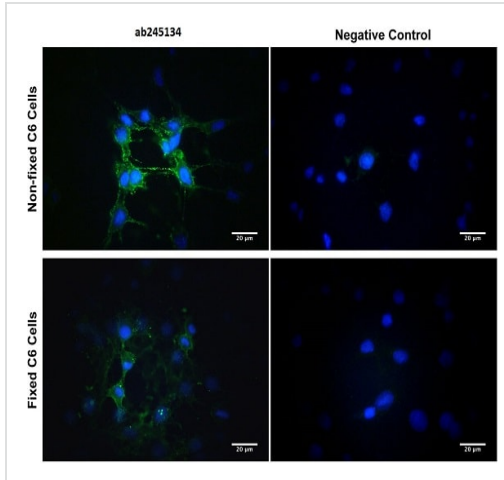
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab245134 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 45 kDa. Non-reducing conditions only - no DTT or beta-mercapoethanol.
Flow Cyt		Use a concentration of 5 - 20 µg/ml.
ICC/IF		Use a concentration of 1 - 5 µg/ml. Light fixation only or unfixed works best. Epitope is sensitive to fixation.
IP		Use a concentration of 1 µg/ml.

Target

Function	Low affinity receptor which can bind to NGF, BDNF, NT-3, and NT-4. Can mediate cell survival as well as cell death of neural cells.
Sequence similarities	Contains 1 death domain. Contains 4 TNFR-Cys repeats.
Domain	Death domain is responsible for interaction with RANBP9. The extracellular domain is responsible for interaction with NTRK1.
Post-translational modifications	N- and O-glycosylated. O-linked glycans consist of Gal(1-3)GalNAc core elongated by 1 or 2 NeuNAc. Phosphorylated on serine residues.
Cellular localization	Membrane.

Images



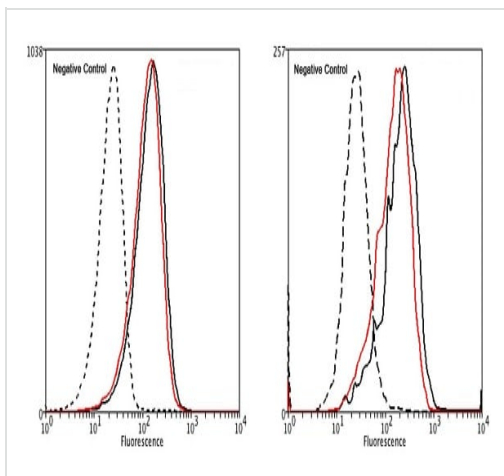
Immunocytochemistry/ Immunofluorescence - Anti-p75 NGF Receptor antibody [8J2] (ab245134)

Non-fixed and 4% formaldehyde-fixed C6 (rat glial tumor cell line) cells labeling p75 NGF Receptor using ab245134 at 2 µg/ml for 1 hour (green) in ICC/IF.

Blocking: 10% normal horse serum, 30 mins.

Secondary antibody: Donkey anti-mouse-CF488A at 2 µg/mL for 1 hour.

Nuclei stained with Hoechst (blue).

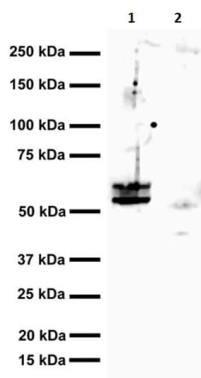


Flow Cytometry - Anti-p75 NGF Receptor antibody [8J2] (ab245134)

Flow Cytometric analysis of SH-SY5Y (human neuroblastoma cell line from bone marrow) (Left panel) and C6 (rat glial tumor cell line) (Right panel) staining p75 NGF Receptor using ab245134 (red lines) and a different antibody (solid black lines) at 2 µg per 10⁶ cells, 60 mins on ice. Negative control is the dashed line, Non specific Control IgG.

Blocking: 200 µg/mL sheep IgG, 30 minutes on ice.

Secondary antibody: Goat anti-mouse-PE used at a 1/100 dilution for 20 mins in the dark on ice.



Immunoprecipitation - Anti-p75 NGF Receptor antibody [8J2] (ab245134)

Immunoprecipitation - Anti-p75 NGF Receptor antibody [8J2] (ab245134) (10 µg antibody per 200 µg total protein):

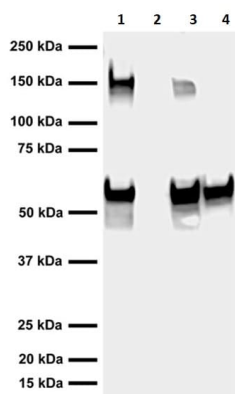
Lane 1: p75 NGF Receptor IP in C6 (rat glial tumor cell line) whole cell lysate.

Lane 2: Control Protein G agarose (10 µL).

Precipitated p75 NGF Receptor was eluted off the beads and antibody by heating and addition of SDS-PAGE sample buffer.

WB method: ab245134 (1 µg/mL) and secondary anti-sheep-HRP (1/6000) antibody.

Detection: Chemiluminescence.



Western blot - Anti-p75 NGF Receptor antibody [8J2] (ab245134)

All lanes : Anti-p75 NGF Receptor antibody [8J2] (ab245134) at 1 µg/ml (overnight at 4°C)

Lane 1 : Mouse p75 NGF Receptor-transfected cells

Lane 2 : Non-transfected control cells

Lane 3 : SH-SY5Y (human neuroblastoma cell line from bone marrow) cell lysate

Lane 4 : C6 (rat glial tumor cell line) cell lysate

Lysates/proteins at 50 µg per lane.

Secondary

All lanes : anti-mouse-HRP, 1 hour at RT at 1/6000 dilution

Performed under non-reducing conditions.

Predicted band size: 45 kDa

SDS-PAGE: 4-12%, **non-reducing conditions.**

Transfer: Tris-Glycine buffer; Membrane: nitrocellulose (0.45 µm).

Detection: Chemiluminiscence.

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