iFluor™ 488 Conjugated Anti-p75 NGF Receptor Antibody [SA39-02]

HA720190F

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	IF-Cell
Molecular Wt:	Predicted band size: 45 kDa
Clone number:	SA39-02

Description: The p75 neurotrophin receptor (p75NTR) was first identified in 1973 as the low-affinity nerve growth factor receptor (LNGFR) before discovery that p75NTR bound other neurotrophins equally well as nerve growth factor. p75NTR is a neurotrophic factor receptor. Neurotrophic factor receptors bind Neurotrophins including Nerve growth factor, Neurotrophin-3, Brain-derived neurotrophic factor, and Neurotrophin-4. All neurotrophins bind to p75NTR. This also includes the immature pro-neurotrophin forms. Neurotrophic factor receptors, including p75NTR, are responsible for ensuring a proper density to target ratio of developing neurons, refining broader maps in development into precise connections. p75NTR is involved in pathways that promote neuronal survival and neuronal death.

Conjugate: iFluor™ 488, Ex: 491nm; Em: 516nm.

Immunogen: Synthetic peptide within Human p75 NGF Receptor aa 345-394 / 427.

Positive control: PC-12.

Subcellular location: Membrane

Database links: SwissProt: P08138 Human | Q9Z0W1 Mouse | P07174 Rat

Recommended Dilutions:

IF-Cell	1:100

Storage Buffer: Preservative: 0.02% Sodium azide Constituents: 30% Glycerol, 1% BSA, 68.98% PBS.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

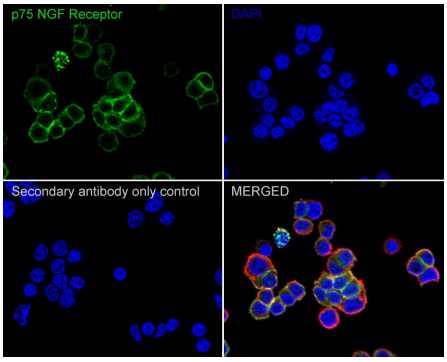

Fig1: Immunocytochemistry analysis of PC-12 cells labeling p75 NGF Receptor with Rabbit anti-p75 NGF Receptor antibody (HA720190F) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-p75 NGF Receptor antibody (HA720190F) at 1/100 dilution in 1% BSA in PBST overnight at 4 ℃. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4℃. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

Background References

1. Blanchard JW et al. Selective conversion of fibroblasts into peripheral sensory neurons. Nat Neurosci 18:25-35 (2015).
2. Fernandez-Enright F et al. Novel implications of Lingo-1 and its signaling partners in schizophrenia. Transl Psychiatry 4:e348 (2014).