

## Anti-NGFR/p75NTR Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat,Dog,Pig,Cow,Horse,GuineaPig)
Molecular Weight:	Theoretical: 44 kDa.
Purification:	Protein A purified

### Applications

1. Blank control: (mo) nephrocyte (blue)  
Isotype Control Antibody: Rabbit IgG -AF647 (orange);  
Primary Antibody Dilution: 5µl in 100 µL1X PBS containing 0.5% BSA (green).
2. Blank control (blue line): Mouse spleen (blue).  
Primary Antibody (green line): Rabbit Anti-p75 NGF Receptor antibody (TMAB-09462)  
Dilution: 1 µg /10<sup>6</sup> cells;  
Isotype Control Antibody (orange line): Rabbit IgG.  
Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC  
Dilution: 1 µg /test.

#### Protocol

The cells were fixed with 70% ice-cold methanol overnight at 4°C and then permeabilized with 0.1% P then permeabilized with 90% ice-cold methanol for 30 min on ice.). Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2% BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

#### Verified Activity:

3. Blank control: Mouse brain.  
Primary Antibody (green line): Rabbit Anti-p75 NGF Receptor antibody (TMAB-09462)  
Dilution: 2 µg /10<sup>6</sup> cells;  
Isotype Control Antibody (orange line): Rabbit IgG.  
Secondary Antibody: Goat anti-rabbit IgG-AF488  
Dilution: 1 µg /test.

#### Protocol

The cells were incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Application:	FCM
Recommended	FCM: 1µg/Test

## A DRUG SCREENING EXPERT

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human NGFR

Antigen Species: Human

Gene ID: 4804

Uniprot ID: P08138

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### Research Background

The low affinity NGFR (Nerve growth factor receptor) is a 75kDa membrane-spanning glycoprotein lacking intrinsic tyrosine kinase activity. p75NGFR interacts with TrkA, the high affinity NGF receptor and potentiates TrkA signaling at low NGF concentrations. The p75 receptor binds nerve growth factor, brain-derived neurotrophic factor, neurotrophin-3 and neurotrophin-4 with varying specificities. The p75NGFR plays an important role in neurotrophic factor signaling and has been shown to modulate the susceptibility of selective cellular populations to programmed cell death. It is expressed on many neuronal cells types including many embryonic forms and the receptor can be used to isolate neuronal progenitor cells. NGF is important for the development, differentiation and survival of a variety of neuronal and non-neuronal cells. Its action is mediated by binding to two distinct receptors, the high affinity p140 and low affinity p75. p75NGFR binds neurotrophins including brain-derived neurotrophic factor (BDNF), neurotrophin-3 (NT-3), NT-4/5, and NT-6. p75NGFR belongs to the TNF-R superfamily and is reported to mediate NGF-induced apoptosis.

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