

# NGFR Antibody (Clone # 8G3G10)

**ALTERNATE NAMES:** CD271; p75NTR; TNFRSF16; p75(NTR); Gp80-LNGFR; NGFR

**CATALOG #:** 6789-100

**AMOUNT:** 100 µl

**HOST/ISOTYPE:** Mouse, IgG1, 2bk

**IMMUNOGEN:** This NGFR antibody is generated from mouse immunized with NGFR recombinant protein.

**MOLECULAR WEIGHT:** ~45.183 kDa

**FORM:** Liquid

**FORMULATION:** In PBS with 0.09% (W/V) sodium azide.

**PURIFICATION:** This antibody is purified through a protein G column, followed by dialysis against PBS.

**SPECIES REACTIVITY:** Human, Mouse.

**STORAGE CONDITIONS:** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

**DESCRIPTION:** NGFR, a 75 kd glycoprotein (also known as P-75NTR), is the first of neurotrophin receptors to be isolated and is a member of the tumor necrosis factor (TNF) receptor family. It is expressed not only in sympathetic and sensory neurons, but also in various neural crest cell or tumor derivatives such as melanocytes, melanomas, neuroblastomas, pheochromocytomas, neurofibromas, and neurotized nevi (type C melanocytes). NGFR has been shown to be a reliable marker for desmoplastic and neurotropic melanoma by several groups. It is now apparent that expression of NGFR is ubiquitous and not limited to the nervous system, being expressed in mature nonneural cells such as perivascular cells, follicular dendritic cells, basal epithelium of oral mucosa and hair follicles, prostate basal cells and myoepithelial cells. Studies in prostate and urothelial cancer suggest that NGFR may act as a tumour suppressor, negatively regulating cell growth and proliferation. Anti-NGFR labels the myoepithelial cells of breast ducts and intralobular fibroblasts of breast ducts and thus aids in the diagnosis of malignancy in the breast.

**APPLICATION:** WB: 1:500 – 1:2000, IHC: 1:50 – 1:100, IF: 1:100.

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

m.heart

250

130

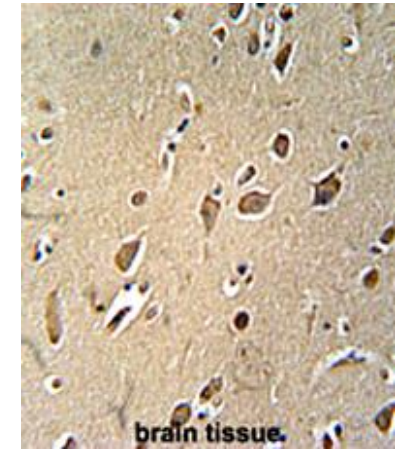
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72

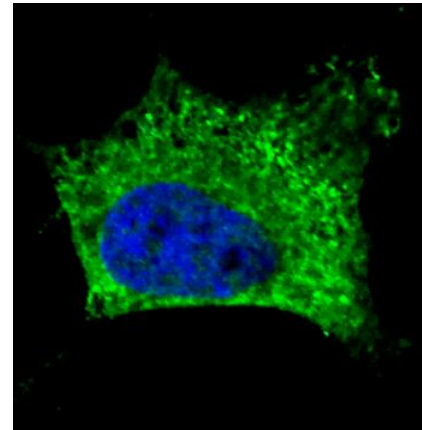
55



Western blot analysis of NGFR Antibody in mouse heart tissue lysates (35 µg/lane). NGFR (arrow) was detected using the purified MAb (1:1000).



NGFR Antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.



Fluorescent confocal image of SY5Y cells stained with NGFR antibody SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AM1842a NGFR primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-mouse antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 µg/ml, 5 min).

## RELATED PRODUCTS:

- NGFR Antibody (Clone # 2F1C2) (Cat # 6788-50)