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## NGFR (Clone ZM55) Mouse Monoclonal Antibody

**Specificity:** Human. Others-not known

**Immunogen:** Recombinant human p75 NGFR protein fragment (around aa 281-421)

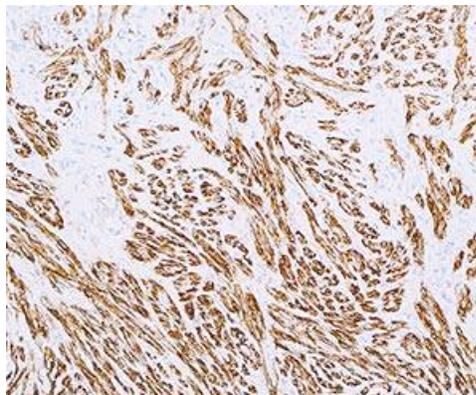
**Ig Class:** IgG2b/k

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200; *Positive Control:* Breast tissue. *Cellular Localization:* Cytoplasmic. *Intended Use:* In vitro diagnosis (IVD).

**Description:** Nerve growth factor receptor (p75<sup>NGFR</sup>), 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. 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.

**Supplied As:** Purified antibody with 0.2% BSA and 15mM sodium azide.



*Formalin-fixed, paraffin-embedded human breast sclerosing adenosis stained with anti-NGFR antibody using peroxidase-conjugate and DAB chromogen. Note the cytoplasmic staining of myoepithelial cells*

Cat. #Z2365 (1.0 ml)