



Mouse Anti-Human Nerve Growth Factor Receptor (NGFR) monoclonal antibody, clone JID748 (CABT-L2944)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
Specificity	Human Nerve Growth Factor Receptor (NGFR)
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID748
Conjugate	Unconjugated
Applications	IHC
Reconstitution	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
Positive Control	Breast
Format	Liquid
Size	Predilut: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml

Buffer	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA
Preservative	< 0.1% Sodium Azide
Storage	Store at 2-8°C. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Nerve Growth Factor Receptor (NGFR), also known as p75, P-75NTR or CD271, is a neurotrophin receptor belonging to the tumor necrosis factor receptor family. NGFR is expressed mainly in Schwann cells and neurons, as well as a number of other non-neuronal cell types, and functions during central and peripheral nervous system development to regulate neuronal growth, migration, differentiation, and cell death. Nerve Growth Factor Receptor is also expressed in melanocytes, melanomas, neuroblastomas, pheochromocytomas, neurofibromas, neurotized nevi (type C melanocytes), and other neural crest cell or tumor derivatives. It has been suggested that NGFR may act as a tumor suppressor indicated in prostate and urothelial cancer, and Anti-Nerve Growth Factor Receptor (NGFR) is often used in adjunct with S100, to aid in the diagnosis of desmoplastic and neurotrophic malignant melanomas. Anti-NGFR is also useful as an aid in the diagnosis of breast malignancy, as the antibody labels the myoepithelial cells of breast ducts and intralobular fibroblasts of breast ducts.
Keywords	NGFR;nerve growth factor receptor;CD271;p75NTR;TNFRSF16;p75(NTR);Gp80-LNGFR;tumor necrosis factor receptor superfamily member 16;p75 ICD;NGF receptor

GENE INFORMATION

Gene Name	NGFR nerve growth factor receptor [Homo sapiens (human)]
Official Symbol	NGFR
Synonyms	NGFR; nerve growth factor receptor; CD271; p75NTR; TNFRSF16; p75(NTR); Gp80-LNGFR; tumor necrosis factor receptor superfamily member 16; p75 ICD; NGF receptor; TNFR superfamily, member 16; low affinity nerve growth factor receptor; low affinity neurotrophin receptor p75NTR; low-affinity nerve growth factor receptor;
Entrez Gene ID	4804
Protein Refseq	NP_002498
UniProt ID	P08138

Chromosome Location	17q21-q22
Pathway	Axonal growth inhibition (RHOA activation); Axonal growth stimulation; BDNF signaling pathway; Cell death signalling via NRAGE, NRIF and NADE; Ceramide signalling; Cytokine-cytokine receptor interaction; NADE modulates death signalling; NF-kB is activated and signals survival;
Function	Rab GTPase binding; death receptor activity; nerve growth factor binding; protein binding; receptor activity; signal transducer activity; transmembrane signaling receptor activity; ubiquitin protein ligase binding;