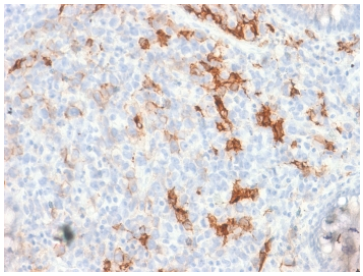
Recombinant p75NTR Antibody / NGFR [clone NGFR/1997R] (V3584)

Catalog No.	Formulation	Size
V3584-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3584-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3584SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3584IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

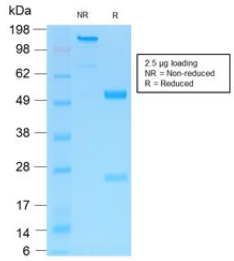
Recombinant RABBIT MONOCLONAL

Bulk quote request

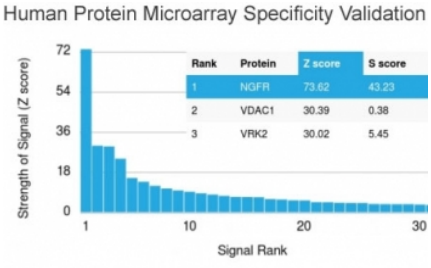
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	NGFR/1997R
Purity	Protein A affinity chromatography
UniProt	P08138
Localization	Cell surface and cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This recombinant p75NTR antibody is available for research use only.



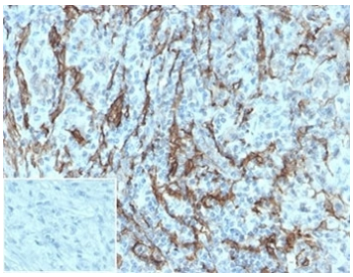
IHC testing of FFPE human melanoma tissue with recombinant p75NTR antibody. Required HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



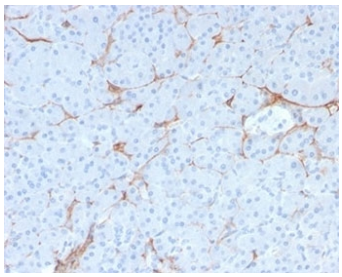
SDS-PAGE analysis of purified, BSA-free recombinant p75NTR antibody (clone NGFR/1997R) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant p75NTR antibody (clone NGFR/1997R). These results demonstrate the foremost specificity of the NGFR/1997R mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



IHC testing of FFPE human melanoma tissue with recombinant p75NTR antibody. Required HIER: boil tissue sections in pH9 EDTA buffer, for 10-20 min followed by cooling at RT for 20 min. Negative control inset: PBS used instead of primary antibody to control for secondary Ab binding.



IHC testing of FFPE human pancreas tissue with recombinant p75NTR antibody. Required HIER: boil tissue sections in pH9 EDTA buffer, for 10-20 min followed by cooling at RT for 20 min.

Description

Recombinant p75NTR antibody is a valuable reagent for detecting the low affinity nerve growth factor receptor, also known as p75 neurotrophin receptor or NGFR. This receptor is a member of the tumor necrosis factor receptor superfamily and is widely expressed in the nervous system. p75NTR regulates neuronal growth, survival, and apoptosis by interacting with neurotrophins and their coreceptors. Because of its multifaceted functions, p75NTR is studied in developmental neurobiology, regeneration, and neurodegeneration.

Structurally, p75NTR contains extracellular cysteine rich domains that bind neurotrophins such as NGF, BDNF, and NT3. Depending on the context and binding partners, p75NTR can promote cell survival or trigger apoptosis. It often acts in coordination with Trk receptors to modulate neurotrophin signaling, but it can also function independently to regulate neuronal fate decisions. Dysregulation of p75NTR has been implicated in neurodegenerative diseases and injury responses.

The Recombinant p75NTR antibody clone NGFR/1997R ensures specific and consistent detection. Recombinant technology guarantees uniformity across batches, providing reproducible performance in experimental settings. Clone

NGFR/1997R has been applied in studies of neuronal development, axonal regeneration, and injury induced cell death. Its specificity makes it an essential tool for clarifying the complex roles of p75NTR in the nervous system.

Research with clone NGFR/1997R has provided insights into how p75NTR signaling contributes to processes such as synaptic plasticity, myelination, and repair after nervous system injury. It has also been used to examine how altered receptor expression influences neurodegenerative disorders like Alzheimer disease and amyotrophic lateral sclerosis. This antibody continues to support both basic and translational neuroscience research.

NSJ Bioreagents supplies this Recombinant p75NTR antibody to support investigations in neurotrophin biology, neuronal regeneration, and disease. The protein is also known as NGFR antibody, low affinity NGF receptor antibody, neurotrophin receptor antibody, and CD271 antibody, reflecting the multiple names used in scientific literature.

Application Notes

Optimal dilution of the recombinant p75NTR antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human protein was used as the immunogen for the recombinant p75NTR antibody.

Storage

Store the recombinant p75NTR antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).