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Goat Anti-Neurotrophin 5 / NT4 Antibody

Peptide-affinity purified goat antibody

Catalog # AF1727a

Specification

Goat Anti-Neurotrophin 5 / NT4 Antibody - Product Information

Application	**WB, E**
Primary Accession	P34130
Other Accession	NP_006170, 4909
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**22427**

Goat Anti-Neurotrophin 5 / NT4 Antibody - Additional Information

Gene ID 4909

Other Names
Neurotrophin-4, NT-4, Neurotrophin-5, NT-5, Neutrophic factor 4, NTF4, NTF5

Dilution
WB~~1:1000
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
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.

Precautions
Goat Anti-Neurotrophin 5 / NT4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Neurotrophin 5 / NT4 Antibody - Protein Information

Name NTF4

Synonyms NTF5

Function
Target-derived survival factor for peripheral sensory sympathetic neurons (PubMed:<a

href="http://www.uniprot.org/citations/1742028" target="_blank">1742028). May promote ameloblast differentiation and subsequent reduction in proliferation of ameloblasts (By similarity).

Cellular Location
Secreted.

Tissue Location
Highest levels in prostate, lower levels in thymus, placenta, and skeletal muscle. Expressed in embryonic and adult tissues

Goat Anti-Neurotrophin 5 / NT4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-Neurotrophin 5 / NT4 Antibody - Images

AF1727a (0.1 µg/ml) staining of Human Cerebellum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-Neurotrophin 5 / NT4 Antibody - Background

This gene is a member of a family of neurotrophic factors, neurotrophins, that control survival and differentiation of mammalian neurons. The expression of this gene is ubiquitous and less influenced by environmental signals. While knock-outs of other neurotrophins including nerve growth factor, brain-derived neurotrophic factor, and neurotrophin 3 prove lethal during early postnatal development, NTF5-deficient mice only show minor cellular deficits and develop normally to adulthood.

Goat Anti-Neurotrophin 5 / NT4 Antibody - References

Identification of a novel mutation in the NTF4 gene that causes primary open-angle glaucoma in a Chinese population. Vithana EN, et al. Mol Vis, 2010 Aug 15. PMID 20806036.
Variations in NTF4, VAV2 and VAV3 Genes Are Not Involved With Primary Open Angle and Primary

Angle Closure Glaucomas in an Indian Population. Rao KN, et al. Invest Ophthalmol Vis Sci, 2010 May 12. PMID 20463313.
Role of the neurotrophin network in eating disorders' subphenotypes: body mass index and age at onset of the disease. Gratac□s M, et al. J Psychiatr Res, 2010 Oct. PMID 20219210.
No evidence of association of heterozygous NTF4 mutations in patients with primary open-angle glaucoma. Liu Y, et al. Am J Hum Genet, 2010 Mar 12. PMID 20215012.
Differential expression and regulation by activin of the neurotrophins BDNF and NT4 during human and mouse ovarian development. Childs AJ, et al. Dev Dyn, 2010 Apr. PMID 20175187.