

## Rabbit Anti-Neurotrophin 4 antibody

SL0158R

**Product Name** Neurotrophin 4

**Chinese Name** 神经生长因子 4/5 抗体

**Alias** GLC10; Neurotrophic factor 4; Neurotrophic factor 5; Neurotrophin 4/5; Neurotrophin 5 (neurotrophin 4/5); Neurotrophin 5; Neurotrophin-4; Neurotrophin-5; Neurotrophin4; Neurotrophin4/5; Neurotrophin5; Neutrophic factor 4; Neutrophic factor 5; NT 4; NT-4; NT 4/5; NT-4/5; NT 5; NT-5; NT4; NT4/5; NT4P; NT5; NTF 4; NTF 5; NTF4; NTF4\_HUMAN; NTF5

**Research Area** Cell biology immunology Neurobiology

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human, Rat, (predicted: Mouse, )  
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)

**Applications** not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 14/27kDa

**Cellular localization** Secretory protein

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human NT-4: 121-210/210

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention** This product as supplied is intended for research use only, not for use in human,

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therapeutic or diagnostic applications.

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Neurotrophin 4 (NT4; synonymous with NT5) belongs to the NGF beta family and is a survival factor for peripheral sensory sympathetic neurons. The expression of this gene is ubiquitous and less influenced by environmental signals. NT4 levels are highest in the prostate, with lower levels in thymus, placenta, and skeletal muscle. NT4 is also expressed in embryonic and adult tissues.

**Function:**

Target-derived survival factor for peripheral sensory sympathetic neurons.

**Subcellular Location:**

Secreted.

**Tissue Specificity:**

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

**DISEASE:**

Defects in NTF4 may be associated with susceptibility to primary open angle glaucoma type 1O (GLC1O) [MIM:613100]. A form of primary open angle glaucoma (POAG). POAG is characterized by a specific pattern of optic nerve and visual field defects. The angle of the anterior chamber of the eye is open, and usually the intraocular pressure is increased. The disease is asymptomatic until the late stages, by which time significant and irreversible optic nerve damage has already taken place.

**Product Detail**

**Similarity:**

Belongs to the NGF-beta family.

**SWISS:**

P34130

**Gene ID:**

4909

**Database links:**

[Entrez Gene: 4909](#) Human

[Entrez Gene: 78405](#) Mouse

[Entrez Gene: 25730](#) Rat

[Omim: 162662](#) Human

[SwissProt: P34130](#) Human

[SwissProt: Q80VU4](#) Mouse

[SwissProt: P34131](#) Rat

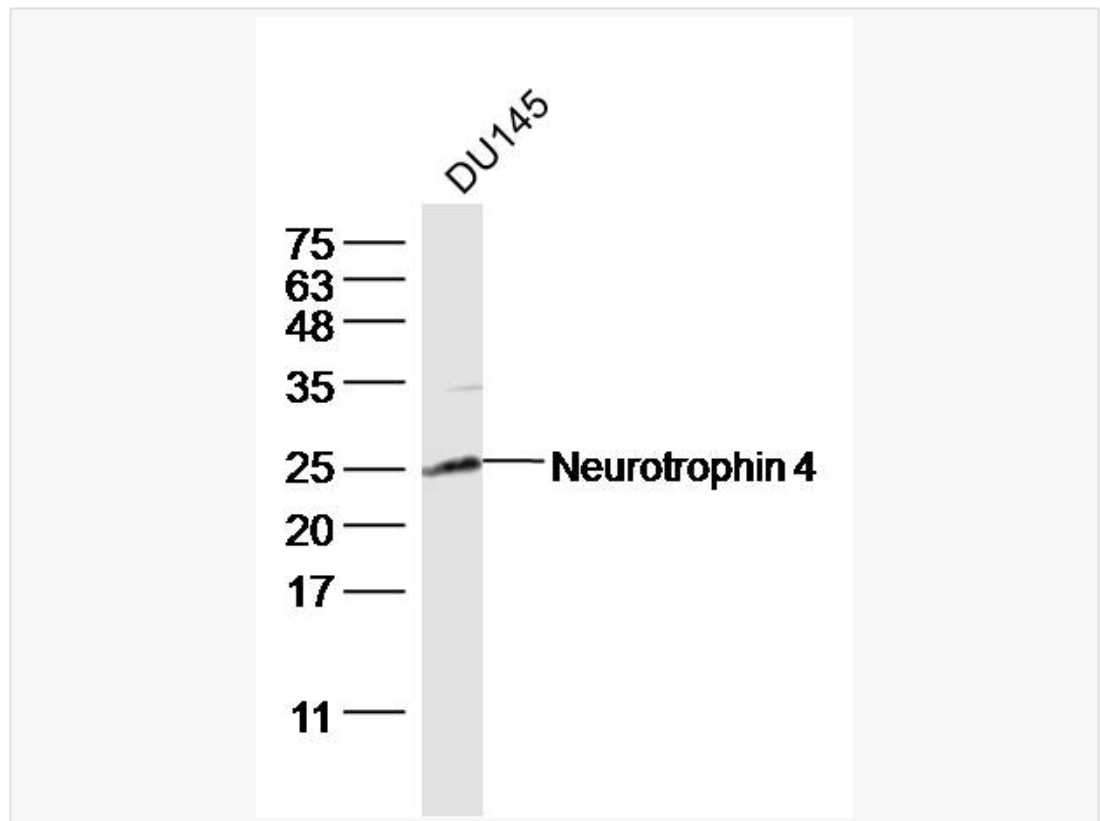
[Unigene: 266902](#) Human

[Unigene: 20344](#) Mouse

[Unigene: 44225](#) Rat

Neurotrophic factor 4/5 起源于同一基因家族， 故可称为 NGF 家族。神经生长因子 4/5 具有促进早期神经元的增殖与分化， 维持成熟神经元的存活的生物学功能,能调控神经元再生的微环境、可促进运动神经元的存活和生长并能防止它受损及死亡。

Product  
Picture



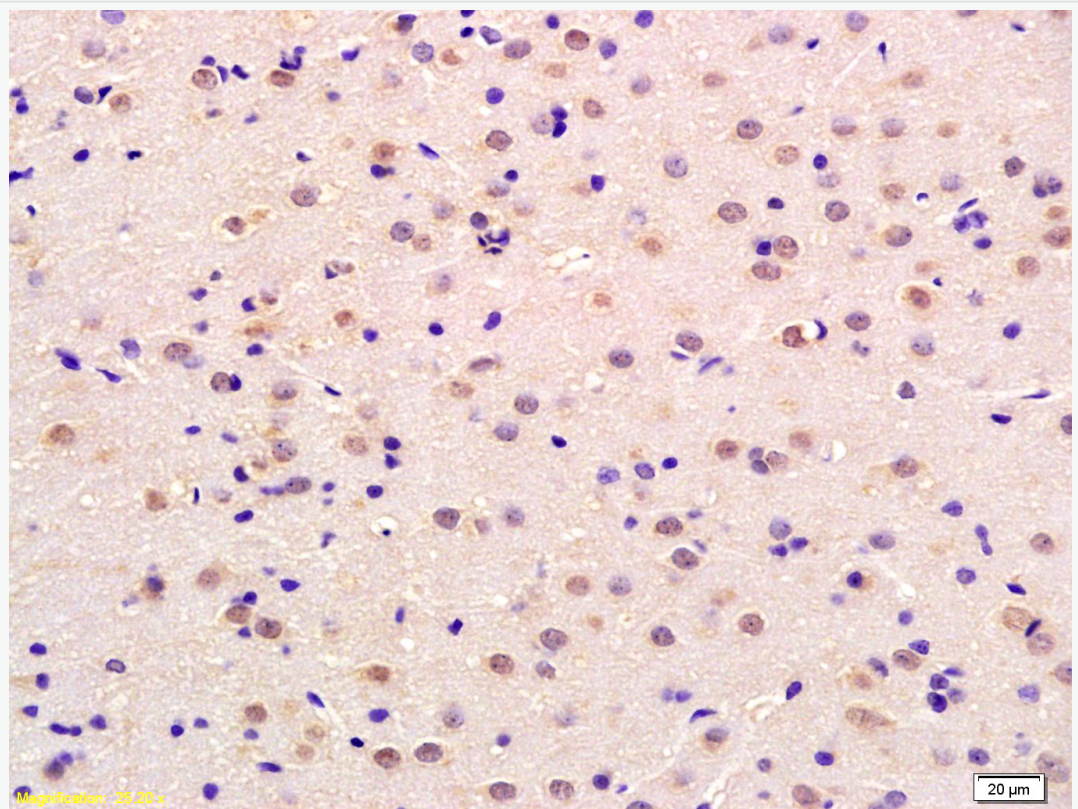
Sample: DU145 Cell (Human) Lysate at 40 ug

Primary: Anti-Neurotrophin 4 (SL0158R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 14/27 kD

Observed band size: 26 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block  
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer  
(normal goat serum,C-0005) at 37°C for 20 min;



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Incubation: Anti-Neurotrophin 4/NT-4/NT-5 Polyclonal Antibody,  
Unconjugated(SL0158R) 1:200, overnight at 4°C, followed by conjugation to the  
secondary antibody(SP-0023) and DAB(C-0010) staining