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NGF Ready-To-Use IHC Kit

Cat.No: IHC0410
Applications: IHC-P

Reactivity: Human, Mouse, Rat

Size: 50T

Assay type: Immunohistochemistry

Sample type: FFPE tissue

General Information:

Number	Component	Size	Concentration	Storage
1	PBS Buffer (powder)	2L×2	20x	RT
2	Antigen Retrieval Buffer	20 ml	100x	2-8°C
3	Endogenous Peroxidase Blocking Buffer	3 ml	RTU	2-8°C, protect from light
4	Blocking Buffer	3 ml	RTU	2-8°C
5	Primary Antibody (NGF Recombinant Rabbit mAb)	6 ml	RTU	2-8°C
6	Secondary Antibody (Goat Anti-Rabbit IgG H&L, HRP conjugated)	6 ml	RTU	2-8°C
7	Chromogen Component A	0.3 ml	RTU	-20°C,protect from light
8	Chromogen Component B	0.3 ml	RTU	-20°C
9	Counter Staining Reagent	5 ml	RTU	RT
10	Mounting Media	5 ml	RTU	RT
11	Control slide (human cerebellum, rat brain, mouse brain)	3 slides	RTU	RT
12	Datasheet	1 сору		

Storage and

Please store components at the temperatures indicated on the individual tube labels. The $\,$

Stability: kit is stable for 6 months from the date of receipt.

Immunohistoche mistry Protocol:

$1. \ \, \textbf{Deparaffinization And Rehydration}$

Immerse slides in fresh xylene for 15 minutes and then repeat two more times using separate containers. Immerse slides sequentially in 100%, 95%, 90%, 80%, and 70% ethanol solutions for 5 minutes each. Rinse slides 3 times with distilled water for 5 minutes each.

2. Antigen Retrieval

Add $100 \times$ **Antigen Retrieval Buffer** into distilled water to prepare a $1 \times$ solution. Boil slides in $1 \times$ solution at 95°C-100°C for 15 minutes. Move the slides to $1 \times$ solution at room temperature (RT) and allow them to stand for 20 minutes. Rinse 3 times with **PBS Buffer** (dissolve the powder in 2L distilled water) for 5 minutes each.

3. Block Endogenous Peroxidase

Drain the liquid off the slides and then use a hydrophobic IHC pen to draw circles on the slides around tissue sections. Add 2-4 drops of **Endogenous Peroxidase Blocking Buffer** directly on slides, covering the whole tissue and block slides for 15 minutes at RT.

Rinse 3 times with **PBS Buffer** for 5 minutes each.

4. Serum Blocking

Block with 2-4 drops of **Blocking Buffer** for 20 minutes at RT.

5. Primary Antibody Incubation

Drain blocking buffer from slides. Incubate slides with 2-4 drops of **NGF Recombinant Rabbit mAb** overnight at 4°C or 1-2 hours at RT. Rinse 3 times with **PBS Buffer** for 5 minutes each.

6. Secondary Antibody Incubation

Incubate slides with 2-4 drops of **Goat Anti-Rabbit IgG H&L, HRP conjugated** for 1-2 hours at RT. Rinse slides 3 times with **PBS Buffer** for 5 minutes each.

7. Signal Development

Remove residual liquid around the tissue section. Add 50ul fresh **DAB Buffer** (**Chromogen Component A : Chromogen Component B : PBS Buffer=1:1:18**) to cover the tissue. Monitor the reaction under the microscope until a brown color is visible (approximate 3-5 minutes at RT). Stop reaction immediately by rinsing with distilled water. Rinse slides 3 times with distilled water for 5 minutes each.

8. Counterstain

Counterstain with an appropriate amount of **Counter Staining Reagent** for 3-5 minutes at RT. Rinse slides with distilled water for 5 minutes. Use 2-4 drops of **Differentiation reagent** to cover the tissue for 30 seconds. Rinse slides twice with distilled water for 5 minutes each.

9. Dehydration Sheet

Immerse slides sequentially in 70%, 80%, 90%, 95%, and 100% ethanol for 5 minutes each at RT. Immerse slides in 2 changes of fresh xylene, 15 minutes each. Drop some **Mounting**Media on the tissue. Mount coverslips.

Notes:

- 1. The positive control slide provided in the kit allows you to be sure that the experimental set-up is working properly.
- 2. Do not allow slides to dry at any time during this procedure.

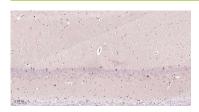
- 3. Please don't replace the matching reagents in this product with other manufacturers' products.
- 4. As DAB is a carcinogen, please take necessary precautions.
- 5. PBS (reagent 1) can be stored for one week at 4°C after preparation; The antigen retrieval buffer (1×reagent 2) and the chromogenic agent (the mixture of reagents 7 and 8) should be prepared right before each assay.

Please cite this product as "IHC0410, Bioss Antibodies". Citation example: "Tissue sections using NGF IHC Kit (IHC0410, Bioss Antibodies) were stained for NGF according to the manufacturer's instructions."

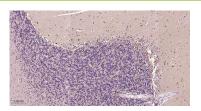
Introduction:

Nerve growth factor (NGF) influences the survival and differentiation of a variety of neuronal and nonneuronal cells. The actions of this polypeptide result from binding to specific cell surface receptors which are present as both high and low affinity sites. Although both types of receptor bind NGF only the high affinity form is capable of signal transduction. Crosslinking studies with 125I-NGF have shown that the high affinity receptor of rat PC12 cells forms an Mr 158,000 complex with NGF while the low affinity receptor forms an Mr 100,000 complex. Full length cDNA clones for both the human and rat NGF receptor genes have been produced and sequenced, revealing greater than 90% homology between the two species. NGF exhibits nerve growth stimulating activity and is involved in the regulation of growth and the differentiation of sympathetic and certain sensory neurons. Further, NGF stimulates division and differentiation of sympathetic and embryonic sensory neurons. Mutations in the NGF gene have been associated with hereditary sensory and autonomic neuropathy, type 5 (HSAN5), and dysregulation of NGF gene expression is associated with allergic rhinitis.

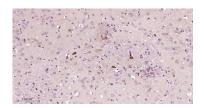
Validation Data



Immunohistochemical analysis of paraffin embedded rat brain tissue slide using IHC0410 (NGF IHC Kit).



Immunohistochemical analysis of paraffin embedded human cerebellum tissue slide using IHC0410 (NGF IHC Kit).



Immunohistochemical analysis of paraffin embedded mouse brain tissue slide using IHC0410 (NGF IHC Kit).