Data Sheet (Cat.No.TMAB-09446)

TargetMol

Anti-NF-L Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 68 kDa. Actual: 65 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. 25 μg total protein per lane of various lysates (see on figure) probed with NF-L polyclonal antibody, unconjugated (TMAB-09446) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min. 2. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with NF-L Polyclonal Antibody, Unconjugated (TMAB-09446) at 1: 200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Purple), DAPI (blue) was used to stain the cell nuclei. 3. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with NF-L Polyclonal Antibody, Unconjugated (TMAB-09446) at 1: 200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Purple), DAPI (blue) was used to stain the cell nuclei. 4. Paraformaldehyde-fixed, paraffin embedded Rat Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with NF-L Polyclonal Antibody, Unconjugated (TMAB-09446) at 1: 200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Purple), DAPI (blue) was used to stain the cell nuclei. 5. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with NF-L Polyclonal Antibody, Unconjugated (TMAB-09446) at 1: 200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Purple), DAPI (blue) was used to stain the cell nuclei. 6. Paraformaldehyde-fixed, paraffin embedded Human Left Parietal Lobe; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with NF-L Polyclonal Antibody, Unconjugated (TMAB-09446) at 1: 200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Purple), DAPI (blue) was used to stain the cell nuclei. 7. Paraformaldehyde-fixed, paraffin embedded (mouse spinal cord); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NF-L) Polyclonal Antibody, Unconjugated (TMAB-09446) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. 8. Paraformaldehyde-fixed, paraffin embedded (rat spinal cord); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NF-L) Polyclonal Antibody, Unconjugated (TMAB-09446) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. 9. The U251 (H) cells were fixed with 4% PFA (10 min at r. T.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at r. T.). Primary Antibody (green): Rabbit Anti-NF-L antibody (TMAB-09446): 1 μg/10^6 cells; Isotype Control (orange): Rabbit IgG. Blank control

(black): PBS. Acquisition of 20,000 events was performed.
10. Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NF-L) Polyclonal Antibody, Unconjugated (TMAB-09446) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
11. Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NF-L) Polyclonal Antibody, Unconjugated (TMAB-09446) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
12. Paraformaldehyde-fixed, paraffin embedded (human cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NF-L) Polyclonal Antibody, Unconjugated (TMAB-09446) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
13. Paraformaldehyde-fixed, paraffin embedded (rat Cerebrum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (NF-L) Polyclonal Antibody, Unconjugated (TMAB-09446) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Application:	WB,IHC-P,IHC-Fr,IF,FCM
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1μg/Test

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human NH-L intermedial
Antigen Species:	Human
Gene ID:	4747
Uniprot ID:	P07196

Research Background

Neurofilament light polypeptide also called NF-L; Neurofilament triplet L protein; 68 kDa neurofilament protein. Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber. The extra mass and high charge density that distinguish the neurofilament proteins from all other intermediate filament proteins are due to the tailpiece extensions. This region may form a charged scaffolding structure suitable for interaction with other neuronal components or ions. NF-L is the most abundant of the three neurofilament proteins and, as the other nonepithelial intermediate filament proteins, it can form homopolymeric 10-nm filaments. Belongs to the intermediate filament family.

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