

Basic Information

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| Product Name | Anti-NF-L/NEFL Antibody (Clone#NR4) | |
| Gene Name | NEFL | |
| Source | Mouse | |
| Clonality | Monoclonal | |
| Isotype | IgG1 | |
| Species Reactivity | human, mouse, rat, pig | |
| Tested Application | WB, IHC | |
| Contents | 200ug/ml antibody with PBS , 0.02% NaN ₃ , 1mg BSA and 50% glycerol. | |
| Immunogen | Pig spinal cord. | |
| Concentration | 200ug/ml | |
| Purification | Ascites | |
| Observed MW | 72 kDa | |
| Dilution Ratios | Western blot (WB): | 1:500-2000 |
| | Immunohistochemistry (IHC): | 1:50-400 |
| | (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. | |

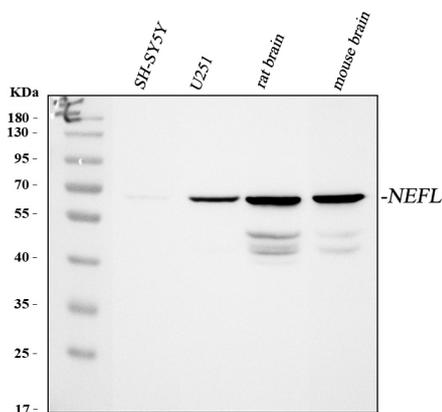
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Neurofilaments are composed of 3 neuron-specific proteins with apparent molecular masses of 68 kD(NFL), 125 kD(NFM) and 200 kD(NFH) on SDS-gel electrophoresis. And they have a role in the maturation of regenerating myelinated axons. Neurofilament 68(NF68), also called Neurofilament Protein, Light Chain(NFL). It is one of the most abundant cytoskeletal components of the neuron. Mutations in this gene were reported as a cause for autosomal dominant Charcot-Marie-Tooth type 2E(CMT2E) linked to chromosome 8p21. NFL was identified repeatedly in both screenings and found to interact with Myotubularin-related 2 gene, MTMR2 in both Schwann cells and neurons.

Selected Validation Data



Western blot analysis of anti- NEFL antibody (BM1295). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

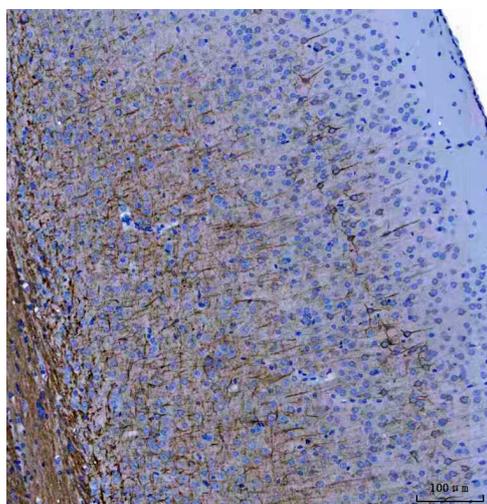
Lane 1: SH-SY5Y whole cell lysates,

Lane 2: U251 whole cell lysates,

Lane 3: rat brain tissue lysates,

Lane 4: mouse brain tissue lysates.

Use mouse anti- NEFL 1:1000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for NEFL at approximately 72KD. The expected band size for NEFL is at 62KD.



IHC analysis using anti- NEFL antibody (BM1295). detected in paraffin-embedded section of mouse brain tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.