**Neurofilament L**

**Data Sheet**

**Cat.No. 171 002; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)**

<table>
<thead>
<tr>
<th>Reconstitution/Storage</th>
<th>200 µl antiserum, lyophilized. For reconstitution add 200 µl H₂O, then aliquot and store at -20°C until use.</th>
</tr>
</thead>
</table>
| Applications           | WB: 1 : 1000 (AP staining)  
                         | IP: yes  
                         | ICC: 1 : 500  
                         | IHC: 1 : 200  
                         | IHC-P/FFPE: 1 : 200 |
| Immunogen              | Recombinant protein corresponding to AA 1 to 376 from human Neurofilament L  
                         | (UniProt Id: P07196) with AA 200-292 missing. Immunogen corresponds to AA 1 to 284 in AAH66952.1 |
| Reactivity             | Reacts with: human (P07196), rat (P19527), mouse (P08551). Other species not tested yet. |
| Specificity            | Specific for neurofilament L. |

**Selected References SYSY Antibodies**

Conditional deletion of L1CAM in human neurons impairs both axonal and dendritic arborization and action potential generation.
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Gene Dosage Dependent Aggravation of the Neuropathological Phenotype in the SXFAD Mouse Model of Alzheimer's Disease.
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Increasing MuSK activity delays denervation and improves motor function in ALS mice.
Pérez-Garcia MJ, Burden SJ

Glyoxal as an alternative fixative to formaldehyde in immunostaining and super-resolution microscopy.
The EMBO journal (2018) 37(1): 139-159. **ICC; tested species: mouse**

Up-regulation of neurofilament light chains is associated with diminished immunoreactivities for MAP2 and tau after ischemic stroke in rodents and in a human case.

Differential antiapoptotic effect of erythropoietin on undifferentiated and retinoic acid-differentiated SH-SYSY cells.
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Topoisomerase IIβ Selectively Regulates Motor Neuron Identity and Peripheral Connectivity through Hox/Pbx-Dependent Transcriptional Programs.
Edmond M, Hanley O, Philippidou P
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**Selected General References**

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14-3-3 protein binds to the low molecular weight neurofilament (NFL) mRNA 3’ UTR.
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Differential subcellular localization of phosphorylated neurofilament and tau proteins in degenerating neurons of the human entorhinal cortex.
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Fernandes KJ, Fan DP, Tsui BJ, Cassar SL, Tetzlauff W

Neurofilament protein is differentially distributed in subpopulations of corticocortical projection neurons in the macaque monkey visual pathways.
Hof PR, Ungerleider LG, Webster MJ, Gattass R, Adams MM, Saijstad CA, Morrison JH

Differential dynamics of neurofilament-H protein and neurofilament-L protein in neurons.
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