Data Sheet

**Neurofilament H**
Cat.No. 171 104; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

<table>
<thead>
<tr>
<th>Reconstitution/Storage</th>
<th>100 µl antiserum, lyophilized. For reconstitution add 100 µl H$_2$O, then aliquot and store at -20°C until use.</th>
</tr>
</thead>
</table>
| Applications           | **WB:** not recommended  
                        | **IP:** not tested yet  
                        | **ICC:** 1 : 500  
                        | **IHC:** 1 : 500  
                        | **IHC-P/FFPE:** 1 : 500  |
| Immunogen              | Recombinant protein corresponding to AA 998 to 1097 from mouse Neurofilament H (UniProt Id: P19246)  |
| Reactivity             | Reacts with: rat (P16884), mouse (P19246).  
                        | Other species not tested yet.  |
| Specificity            | Specific for neurofilament H.  |

**TO BE USED IN VITRO / FOR RESEARCH ONLY**

**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

**Neurofilaments** are exclusively expressed in nerve cells and are the major structural component of large-diameter myelinated axons. They are predominantly composed of three proteins, Neurofilament H, L and M and are among the most highly phosphorylated neuronal proteins.

**Selected References SYSY Antibodies**

Impaired Neurofilament Integrity and Neuronal Morphology in Different Models of Focal Cerebral Ischemia and Human Stroke Tissue.

The Kohlschütter-Tönz syndrome associated gene Rogdi encodes a novel presynaptic protein.
Riemann D, Wallrafen R, Drechs T

**Selected General References**

New movements in neurofilament transport, turnover and disease.
Barry DM, Milliecamps S, Julien JP, Garcia ML

Regulation between O-GlcNAcylation and phosphorylation of neurofilament-M and their dysregulation in Alzheimer disease.

CSF neurofilament proteins in the differential diagnosis of dementia.
de Jong D, Jansen RW, Pijnenburg YA, van Geel WJ, Borm GF, Kremer MM

14-3-3 protein binds to the low molecular weight neurofilament (NFL) mRNA 3’ UTR.
Ge WW, Vollkening K, Leystra-Lantz C, Jaffe H, Strong MJ

Differential subcellular localization of phosphorylated neurofilament and tau proteins in degenerating neurons of the human entorhinal cortex.
Porcher R, Probst A, Dráberová E, Dráber P, Riederer IM, Riederer BM

Influence of the axotomy to cell body distance in rat rubrospinal and spinal motoneurons: differential regulation of GAP-43, tubulins, and neurofilament-M.
Fernandes KJ, Fan DP, Tsui BJ, Cassar SL, Tetzlaff 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, Salistad CA, Morrison JH

Differential dynamics of neurofilament-H protein and neurofilament-L protein in neurons.
Takeda S, Okabe S, Funakoshi T, Hirokawa N

Neurofilament immunoreactivity in myenteric neurons differs from that found in the central nervous system.
Eaker EY, Shaw G, Sninsky CA

Intermediate filaments in nervous tissues.
Liem RK, Yen SH, Salomon GD, Shelanski ML