

Product datasheet for **SM3068P**

Neurofilament M (160 kD) Mouse Monoclonal Antibody [Clone ID: NF-09]

Product data:

Product Type:	Primary Antibodies
Clone Name:	NF-09
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot. Immunocytochemistry. Immunohistochemistry on Paraffin Sections. Positive Tissue: Neuro2A murine cell line. Note: Carnoys fixative 2 x 3 min, blocking 1% Glycine + 0.2% Gelatin 10 min.
Reactivity:	All Species
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Pellet of Porcine brain cold stable proteins after depolymerization of microtubules
Specificity:	The antibody reacts with both phosphorylated and non-phosphorylated form of medium neurofilament protein (160 kDa) of various species. Antibodies to the various neurofilament subunits are very useful cell type markers since the proteins are among the most abundant of the nervous system, are expressed only in neurons and are biochemically very stable.
Formulation:	Phosphate buffered saline (PBS), pH~7.4 with 15 mM Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Database Link:	<u>P08552</u>

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Background:

Neurofilaments (NFs) are a type of intermediate filament (IF) expressed almost exclusively in neuronal cells, and in those cells most prominently in large axons, the longest cell protrusions known in vertebrates. NFs in most vertebrates are composed of three different polypeptide chains with different molecular weights (NF-H - heavy chain, NF-M - medium chain and NF-L - light chain). The three NF subunits share sequence and structural similarity in a coiled-coil core domain, but differ in the length and sequence of their N-termini and more dramatically of their C-termini which in the case of NF-M and NF-H form the flexible extensions that link NFs to each other and to other elements in the cytoplasm.

Synonyms:

Neurofilament medium polypeptide, NF-M, NEF3, NEFM, Neurofilament 3, (Neuronal Marker)

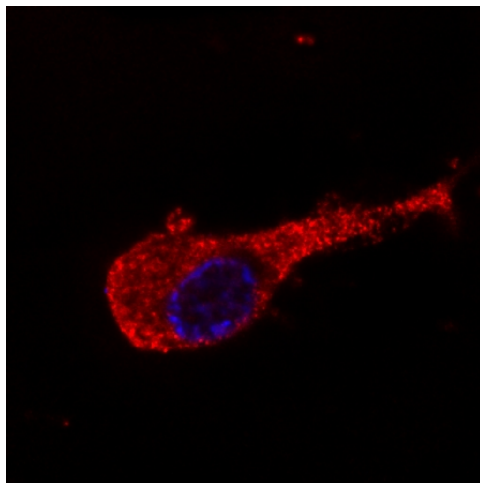
Product images:

kDa:

202 —
116 —
98 —
47 —



Western blotting analysis of neurofilament medium protein in porcine brain lysate (reducing conditions) by mouse monoclonal NF-09.



Immunofluorescence staining of neurofilament medium protein in murine Neuro2A cells by antibody NF-09 conjugated with Dyomics 547 (red). DNA stained by Hoechst (blue).