

BM5505**Monoclonal Antibody to Neurofilament M (160 kD) - Supernatant**

Alternate names:	(Neuronal Marker), NEF3, NEFM, NF-M, Neurofilament 3, Neurofilament medium polypeptide
Quantity:	1 ml
Background:	Neurofilaments can be defined as the intermediate or 10nm diameter filaments found in neuronal cells. They are composed a mixture of subunits which often includes the neurofilament triplet proteins, NF-L, NF-M and NF-H. Neurofilaments may also include peripherin, alpha-internexin, nestin and in some cases vimentin. Antibodies to the various neurofilament subunits are very useful cell type markers since the proteins are quite abundant, biochemically stable. This antibody was raised against the C-terminal region of NF-M, a region highly conserved between NF-M molecules in different species. Accordingly the antibody recognizes all mammalian and avian NF-M molecules. The name NF-M refers to the fact that this is the "middle" or "medium" protein of neurofilament triplet, the other two proteins being "low" or "light" (NF-L) and "high" or "heavy" (NF-H). NF-M is sometimes also referred to as NEF3 or Neurofilament
Uniprot ID:	P07197
NCBI:	NP_005373.2
GeneID:	4741
Host / Isotype:	Mouse / IgG1
Clone:	NF403
Immunogen:	Neurofilament preparation isolated from calf brain tissue.
Format:	State: Liquid Culture Supernatant containing 0.09% Sodium Azide as preservative.
Applications:	Immunohistochemistry on Frozen and Paraffin Sections: 1/10 for 1 h at room temperature. <i>Recommended Positive Control:</i> Human brain tissue. Immunoblotting. Cell preparations. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Marker for the differentiation of 160 kD neurofilament peptide from other intermediate filament proteins. The antibody is useful for studying neurofilament expression and for tumor characterization (pheochromocytoma, paraganglioma, ganglioneuroblastoma, ganglioneuroma and other tumors of neuronal origin). Species: Human, Bovine, Rat and Guinea Pig. Other species not tested.

Storage: Store the antibody undiluted at 2-8°C.
DO NOT FREEZE!
Shelf life: one year from despatch.

General Readings: 1. Hacker GW et al: Antibodies to neurofilament protein and other brain proteins reveal the innervation of peripheral organs. *Immunochemistry* 82, 581-593 (1985)