

Product datasheet for **BM5505**

Neurofilament (NEFM) Mouse Monoclonal Antibody [Clone ID: NF403]

Product data:

Product Type:	Primary Antibodies
Clone Name:	NF403
Applications:	IHC, WB
Recommended Dilution:	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.
Reactivity:	Bovine, Guinea Pig, Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Neurofilament preparation isolated from calf brain tissue.
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).
Formulation:	State: Supernatant State: Liquid Culture Supernatant containing 0.09% Sodium Azide as preservative.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	neurofilament, medium polypeptide
Database Link:	Entrez Gene 4741 Human P07197



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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

Synonyms:

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