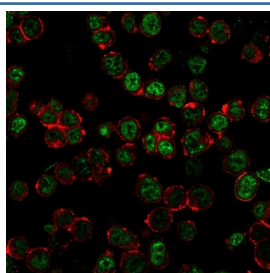


## Neurofilament Antibody Cocktail (Heavy + Light) [clone NF421 + NFL/736] (V8380)

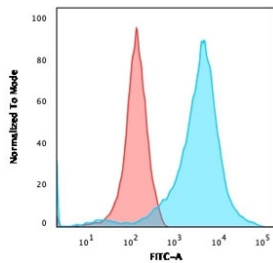
Catalog No.	Formulation	Size
V8380-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8380-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8380SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

### Bulk quote request

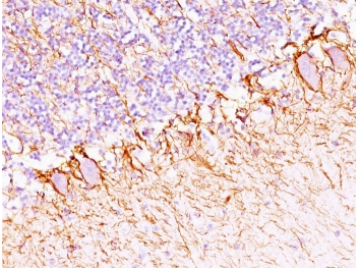
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa + Mouse IgG1, kappa
Clone Name	NF421 + NFL/736
Purity	Protein G affinity chromatography
UniProt	P12036
Localization	Cytoplasmic
Applications	Flow Cytometry : 1-2ug/ million cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 minutes at RT
Limitations	This Neurofilament antibody cocktail is available for research use only.



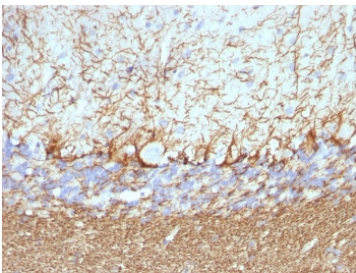
Immunofluorescent staining of permeabilized human HEK293 cells with Neurofilament antibody cocktail (green) and Pallodin (red).



Flow cytometry testing of permeabilized human HEK293 cells with Neurofilament antibody cocktail (clone NF421 + NFL/736); Red=isotype control, Blue= Neurofilament antibody cocktail.



IHC staining of FFPE human cerebellum with Neurofilament antibody cocktail (NF421 + NFL/736). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC staining of FFPE rat cerebellum with Neurofilament antibody cocktail (NF421 + NFL/736). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.

## Description

This MAb reacts with a 200kDa and 68kDa protein, identified as heavy and light sub-units of neurofilaments (NF-H & NF-L). Neurofilaments make up the main structural elements of axons and dendrites and are found in neurons, peripheral nerves, and sympathetic ganglion cells. Neurofilaments consist of three major subunits with molecular weights of 68kDa (NF-L), 160kDa (NF-M) and 200kDa (NF-H). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.

## Application Notes

Optimal dilution of the Neurofilament antibody cocktail should be determined by the researcher.

## Immunogen

Recombinant human neurofilament protein was used as the immunogen for the Neurofilament antibody cocktail.

## Storage

Store the Neurofilament antibody cocktail at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

