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## Datasheet for ABIN3026907 anti-Neurofilament antibody

### 2 Images

#### Overview

Quantity:	100 µg
Target:	Neurofilament
Reactivity:	Human, Rat, Pig, Chicken, Cow
Host:	Mouse
Clonality:	Monoclonal
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

#### Product Details

Immunogen:	Crude neurofilament preparation from porcine spinal cord was used as the immunogen for the Neurofilament antibody.
Clone:	NR-4
Isotype:	IgG1
Characteristics:	<p>This mAb reacts with a 68 kDa protein, identified as light sub-unit of neurofilaments (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 68 kDa (NF-L), 160 kDa (NF-M) and 200 kDa (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 cell carcinomas of the lung also express neurofilament.</p>

## Product Details

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Purification: Protein G affinity chromatography

## Target Details

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Target: Neurofilament

Abstract: [Neurofilament Products](#)

Background: This mAb reacts with a 68 kDa protein, identified as light sub-unit of neurofilaments (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 68 kDa (NF-L), 160 kDa (NF-M) and 200 kDa (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 cell carcinomas of the lung also express neurofilament.

## Application Details

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Application Notes: Optimal dilution of the Neurofilament antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.\. Immunofluorescence: 1-2 µg/mL, Flow Cytometry: 0.5-1 µg/million cells in 0.1ml, Immunohistochemistry (FFPE): 0.25-0.5 µg/mL for 30 min at RT (1), Prediluted format: incubate for 30 min at RT (2)

Restrictions: For Research Use only

## Handling

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Concentration: 1 mg/mL

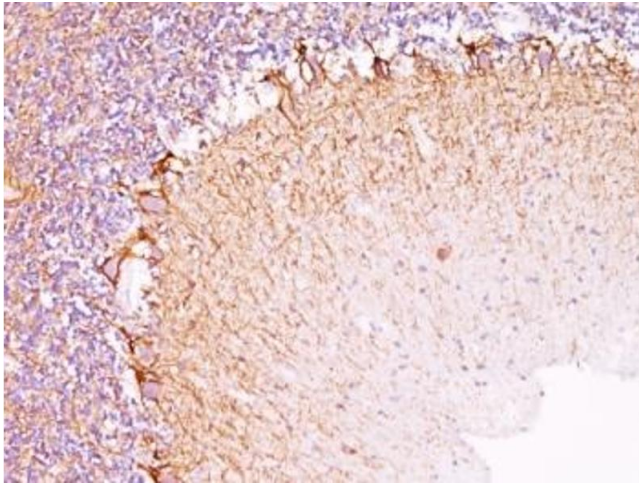
Buffer: 1 mg/mL in 1X PBS, BSA free, sodium azide free

Preservative: Azide free

Storage: 4 °C, -20 °C

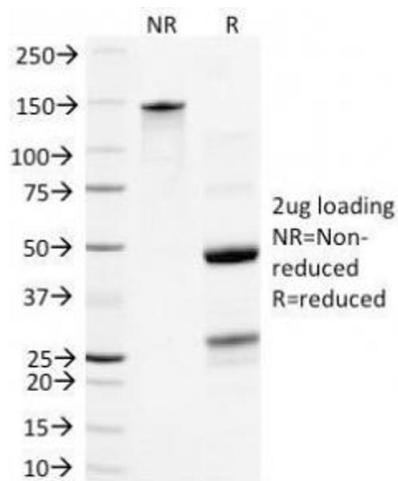
Storage Comment: Store the Neurofilament antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder

(without azide).



### Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections)

**Image 1.** Formalin-fixed, paraffin-embedded human cerebellum stained with Neurofilament antibody (NR-4).



### SDS-PAGE

**Image 2.** SDS-PAGE Analysis of Purified, BSA-Free Neurofilament Antibody (clone NR-4). Confirmation of Integrity and Purity of the Antibody.