

Neurofilament Monoclonal Antibody

Neurofilament

CATALOG #
AAA59229REACTIVITY
Human, Canine, Rat, Mouse, Horse

PRODUCT SYNONYMS

Neurofilament; Monoclonal Antibody; anti-Neurofilament antibody

PRODUCT SPECIFICATIONS

Reactivity	Human, Canine, Rat, Mouse, Horse
Clonality	Monoclonal
Isotype	IgG1/K
Clone Number	2F11
Form/Format	Anti-Neurofilament is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.
Immunogen	Purified human neurofilament preparation.
Control	Brain
Precautions	1. For professional users only. Results should be interpreted by a qualified medical professional. 2. This product contains <0.1% sodium azide (NaN₃) as a preservative. Ensure proper handling procedures are used with this reagent. 3. Always wear personal protective equipment such as laboratory coat, goggles and gloves when handling reagents. 4. Dispose of unused solution with copious amount of water. 5. Do not ingest reagent. If reagent is ingested, seek medical advice immediately. 6. Avoid contact with eyes. If contact occurs, flush with large quantities of water. 7. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar). 8. For additional safety information refer to Safety Data Sheet for this product. 9. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and AMDL" (see References in this document).
Specimen Preparation	Paraffin sections: The antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation for best results. Pre-treatment of tissues with heat-induced epitope retrieval (HIER) is recommended using ImmunoDNA Retriever with Citrate (Inquire), ImmunoDNA Retriever with EDTA (Inquire) or ImmunoDNA Digestor (Inquire). See reverse side for complete protocol. Tissue should remain hydrated via use of Immuno/DNA Washer solutions (Inquire). Frozen sections and cell preparations: The antibody can be used for labeling acetone-fixed frozen sections and acetone-fixed cell preparations.

Staining Procedure

- 1. Cut and mount 3-5 micron formalin-fixed paraffin-embedded tissues on positively charged slides such as Hydrophilic Plus Slides (Inquire).
- 2. Air dry for 2 hours at 58° C.
- 3. Deparaffinize, dehydrate and rehydrate tissues.
- 4. Subject tissues to heat induced epitope retrieval (HIER) using a suitable retrieval solution such as ImmunoDNA Retriever with Citrate (Inquire) or EDTA (Inquire).
- 5. Any of three heating methods may be used:
 - a. TintoRetriever Pressure Cooker or Equivalent
Place tissues/slides in a staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA, and place on trivet in the pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high. Incubate for 15 minutes. Open and immediately transfer slides to room temperature.
 - b. TintoRetriever PT Module or Water Bath Method Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA at 95°-99° C. Incubate for 30-60 minutes.
 - c. Conventional Steamer MethodPlace tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA in a steamer, cover and steam for 30-60 minutes.
- 6. After heat treatment, transfer slides in ImmunoDNA Retriever with Citrate or EDTA to room temperature and let stand for 15-20 minutes.
- 7. For manual staining, perform antibody incubation at ambient temperature. For automated staining methods, perform antibody incubation according to instrument manufacturer's instructions.
- 8. Wash slides with ImmunoDNA washer or DI water.
- 9. Continue IHC staining protocol. Wash slides between each step with ImmunoDNA washer solution.

Preparation and Storage

Store at 2-8°C (Control Slides: Store at 20-25°C)

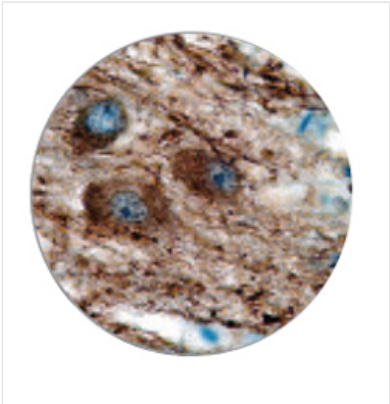
IMAGES

Abbreviated Immunohistochemical Protocol			
Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate-Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain / Coverslip	Varies	Varies	Varies

Antibody Type	Dilution	Volume/Qty
Tinto Prediluted	Ready-to-Use	3.0 mL
Tinto Prediluted	Ready-to-Use	7.0 mL
Tinto Prediluted	Ready-to-Use	15.0 mL
Concentrated	1:250 - 1:1000	0.1 mL
Concentrated	1:250 - 1:1000	0.5 mL
Concentrated	1:250 - 1:1000	1.0 mL

Application Data

Application Data
Presentations



IHC (Immunohistochemistry)

ADDITIONAL INFORMATION

Related Product Information for anti-Neurofilament antibody	Neurofilaments are the Type IV family of intermediate filaments that are found in high concentrations along the axons of vertebrate neurons. Neurofilament antibody stains an antigen localized in a number of neural, neuroendocrine and endocrine tumors. Neuromas, Ganglioneuromas, Gangliogliomas, Ganglioneuroblastomas and Neuroblastomas stain positively for neurofilament. Neurofilaments are also present in Parangangliomas and Adrenal and Extra-Adrenal Pheochromocytomas. Carcinoids, Neuroendocrine Carcinomas of the Skin, and Oat Cell Carcinomas of the Lung also express neurofilament.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/neurofilament-antibody-clone-2f11-elisa/59229>