

Datasheet for ABIN335369

## anti-NEFH antibody



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### Overview

Quantity:	0.1 mg
Target:	NEFH
Reactivity:	Human, Rat, Mouse, Chicken, Cow, Guinea Pig, Rabbit, Dog, Sheep, Xenopus laevis, Monkey, Hamster
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NEFH antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	RNF402 is a mouse monoclonal IgM antibody derived by fusion of SP2/0-Ag14 mouse myeloma cells with spleen cells from a mouse immunized with a neurofilament preparation of calf brain tissue.
Clone:	RNF402
Isotype:	IgM
Specificity:	Human, rat, rabbit, dog, hamster, chicken, mouse, cow, monkey, sheep, guinea pig and Xenopus.
Purification:	Purified

## Target Details

Target:	NEFH
Alternative Name:	Neurofilament 200 kDa ( <a href="#">NEFH Products</a> )
Background:	<p>Like most other intermediate filament proteins (IFPs), the expression of the different neuronal IFPs is both tissue-specific and developmentally regulated. The neurofilament (NF) triplet proteins (70, 160, and 200 kDa) occur in both the central and peripheral nervous system and are normally restricted to neurons. The 70 kDa NF-protein can self-assemble into a filamentous structure, whereas the 160 kDa and 200 kDa NF-proteins require the presence of the 70 kDa NF-protein to co-assemble. All three NF proteins can be detected by immunohistochemical methods at day 9 or 10 after gestation in the mouse embryo. Although IFPs of the neurofilament type are normally restricted to neurons, there are reports on their expression in non-neuronal cells as well. For example, in heart conduction myocytes NF proteins are expressed together with desmin. In tumor pathology ganglioneuroblastomas and some of the other neuroblastomas are strongly positive with the neurofilament antisera. Also, some neuro-endocrine malignancies may show NF positivity. In cell cultures of neural tissues the neurofilament antibodies can monitor in vitro differentiation.</p>

## Application Details

Application Notes:	<p>RNF402 reacts with both the phosphorylated and non-phosphorylated isoform of the 200 kD neurofilament protein. RNF402 is suitable for immunoblotting and immunohistochemistry on frozen and paraffin-embedded tissues. Optimal antibody dilution should be determined by titration, recommended range is 1:10 - 1:100 for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:25 - 1:250 for immunoblotting applications.</p>
Restrictions:	For Research Use only

## Handling

Storage:	4 °C
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## Publications

Product cited in:	<p>Bauwens, De Groot, Ramaekers, Veldman, Huizing: "Expression of intermediate filament proteins in the adult human vestibular labyrinth." in: <b>The Annals of otology, rhinology, and laryngology</b>, Vol. 101, Issue 6, pp. 479-86, (1992) (<a href="#">PubMed</a>).</p>
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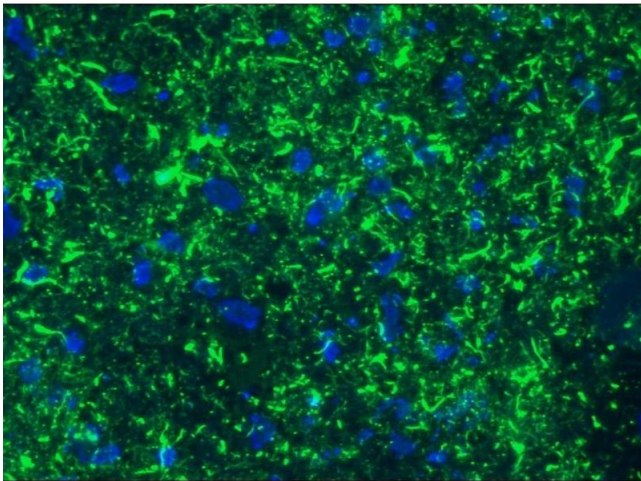
## Publications

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Kuijpers, Tonnaer, Peters, Ramaekers: "Expression of intermediate filament proteins in the mature inner ear of the rat and guinea pig." in: **Hearing research**, Vol. 52, Issue 1, pp. 133-46, (1991) ([PubMed](#)).

## Images

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**Image 1.**