abcam

Product datasheet

Anti-Neurofilament heavy polypeptide antibody [EP673Y] ab40796

リコンビナント   RabMAb

★★☆☆☆ **3 Abreviews**   **9 References**   画像数 6

製品の概要

製品名	Anti-Neurofilament heavy polypeptide antibody [EP673Y]
製品の詳細	Rabbit monoclonal [EP673Y] to Neurofilament heavy polypeptide
由来種	Rabbit
特異性	ab40796 recognises Neuofilaments (NF).
アプリケーション	**適用あり:** WB, IHC-P
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Synthetic peptide within Human Neurofilament heavy polypeptide aa 650-750. The exact sequence is proprietary.
ポジティブ・コントロール	WB: Human, mouse and rat brain tissue lysate. IHC-P: Human gliocytoma tissue.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル

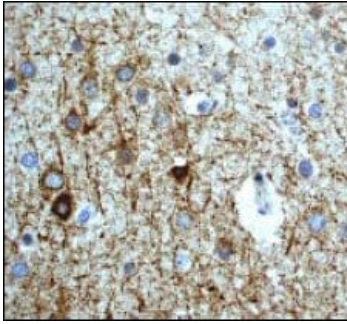| クローン名	EP673Y
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab40796の使用に適用されます**

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★☆☆ (1)	1/2000. Detects a band of approximately 200 kDa (predicted molecular weight: 112 kDa).
IHC-P		1/8000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.

ターゲット情報

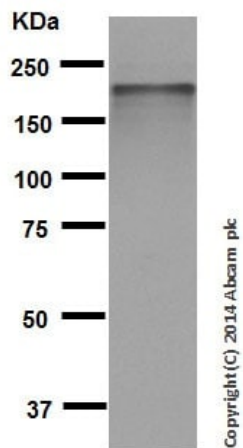|	
機能	Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber. NF-H has an important function in mature axons that is not subserved by the two smaller NF proteins.
関連疾患	Defects in NEFH are a cause of susceptibility to amyotrophic lateral sclerosis (ALS) [MIM:105400]. ALS is a neurodegenerative disorder affecting upper and lower motor neurons, and resulting in fatal paralysis. Sensory abnormalities are absent. Death usually occurs within 2 to 5 years. The etiology is likely to be multifactorial, involving both genetic and environmental factors.
配列類似性	Belongs to the intermediate filament family.
翻訳後修飾	There are a number of repeats of the tripeptide K-S-P, NFH is phosphorylated on a number of the serines in this motif. It is thought that phosphorylation of NFH results in the formation of interfilament cross bridges that are important in the maintenance of axonal caliber. Phosphorylation seems to play a major role in the functioning of the larger neurofilament polypeptides (NF-M and NF-H), the levels of phosphorylation being altered developmentally and coincident with a change in the neurofilament function. Phosphorylated in the Head and Rod regions by the PKC kinase PKN1, leading to inhibit polymerization.

画像

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Neurofilament heavy polypeptide antibody [EP673Y] (ab40796)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human brain glyoma tissue labelling Neurofilament heavy polypeptide with unpurified ab40796.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Western blot - Anti-Neurofilament heavy polypeptide antibody [EP673Y] (ab40796)

Anti-Neurofilament heavy polypeptide antibody [EP673Y] (ab40796) at 1/2000 dilution (purified) + Human brain tissue lysate at 20 µg
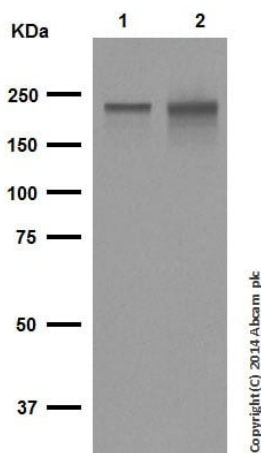
Secondary
Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 112 kDa
Observed band size: 200-220 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

Western blot - Anti-Neurofilament heavy polypeptide antibody [EP673Y] (ab40796)

All lanes : Anti-Neurofilament heavy polypeptide antibody [EP673Y] (ab40796) at 1/2000 dilution (purified)

Lane 1 : Mouse brain tissue lysate
Lane 2 : Rat brain tissue lysate
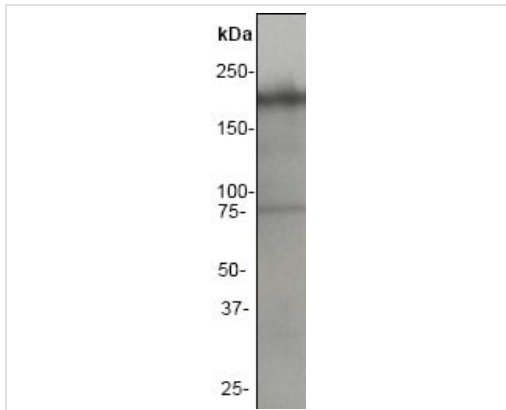
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 112 kDa
Observed band size: 200-220 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

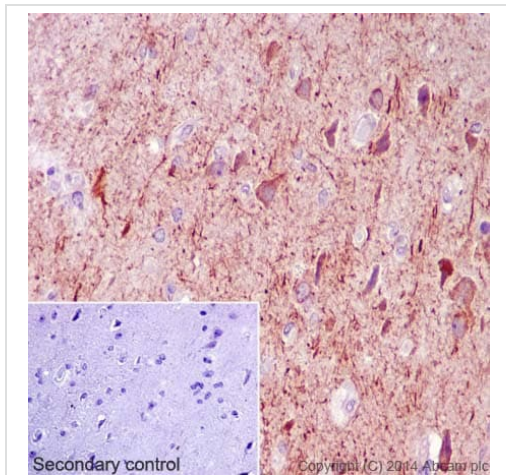Western blot - Anti-Neurofilament heavy polypeptide antibody [EP673Y] (ab40796)

Anti-Neurofilament heavy polypeptide antibody [EP673Y] (ab40796) at 1/2000 dilution (unpurified) + Rat brain tissue lysate

Predicted band size: 112 kDa
Observed band size: 200 kDa
Additional bands at: 75 kDa. We are unsure as to the identity of these extra bands.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Neurofilament heavy polypeptide antibody [EP673Y] (ab40796)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human gliocytoma tissue labelling Neurofilament heavy polypeptide with purified ab40796 at 1/8000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-Neurofilament heavy polypeptide antibody

[EP673Y] (ab40796)

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