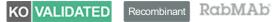
abcam

Product datasheet

Anti-alpha Internexin antibody [EP676Y] ab40758





★★★★ 7 Abreviews 8 References 6 Images

Overview

Product name Anti-alpha Internexin antibody [EP676Y]

Description Rabbit monoclonal [EP676Y] to alpha Internexin

Host species Rabbit

Tested applications Suitable for: WB, IP, IHC-FoFr, Flow Cyt, IHC-P, ICC/IF

Species reactivity Reacts with: Mouse, Rat, Human

Does not react with: Apteronotus leptorhynchus

Immunogen Synthetic peptide within Human alpha Internexin aa 400-500. The exact sequence is proprietary.

Positive control HeLa, SHSY5Y cell lysate, human brain lysate.

General notes 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**.

Properties

Form Liquid

Storage instructions Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer pH: 7.20

Preservative: 0.01% Sodium azide

Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture

supernatant

Purity Protein A purified

Clonality Monoclonal Clone number **EP676Y**

ΙgG Isotype

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab40758 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	**** <u>(2)</u>	1/5000 - 1/10000. Detects a band of approximately 60 kDa (predicted molecular weight: 66 kDa).
IP		Use at an assay dependent concentration.
IHC-FoFr	★★★★☆ (1)	Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. <u>ab172730</u> - Rabbit monoclonal lgG, is suitable for use as an isotype control with this antibody.
IHC-P	★★★★ (1)	1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF	★★★★ (1)	1/250 - 1/500.

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Iaiuci	

Function Class-IV neuronal intermediate filament that is able to self-assemble. It is involved in the

morphogenesis of neurons. It may form an independent structural network without the involvement of other neurofilaments or it may cooperate with NF-L to form the filamentous backbone to which

NF-M and NF-H attach to form the cross-bridges.

Tissue specificity Found predominantly in adult CNS.

Sequence similarities Belongs to the intermediate filament family.

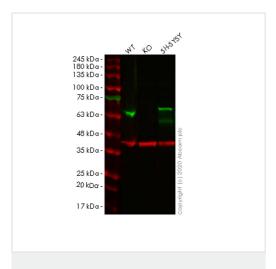
Developmental stage Expressed in brain as early as the 16th week of gestation, and increased rapidly and reached a

steady state level by the 18th week of gestation.

Post-translational O-glycosylated.

modifications Phosphorylated upon DNA damage, probably by ATM or ATR.

Images



Western blot - Anti-alpha Internexin antibody [EP676Y] (ab40758) **All lanes :** Anti-alpha Internexin antibody [EP676Y] (ab40758) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2: INA knockout HeLa cell lysate

Lane 3: SH-SY5Y cell lysate

Lysates/proteins at 20 µg per lane.

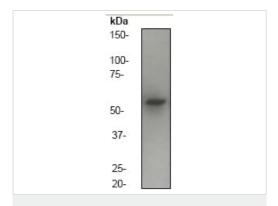
Secondary

All lanes : Goat anti-Rabbit lgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

Predicted band size: 66 kDa
Observed band size: 66 kDa

Lanes 1-4: Merged signal (red and green). Green - ab40758 observed at 66 kDa. Red - loading control **ab8245** observed at 36 kDa.

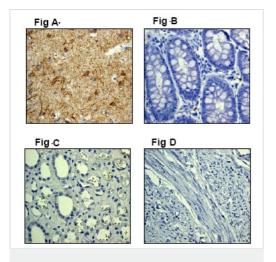
ab40758 Anti-alpha Internexin antibody [EP676Y] was shown to specifically react with alpha Internexin in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab265264 (knockout cell lysate ab257482) was used. Wild-type and alpha Internexin knockout samples were subjected to SDS-PAGE. ab40758 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-alpha Internexin antibody [EP676Y] (ab40758)

Anti-alpha Internexin antibody [EP676Y] (ab40758) at 1/10000 dilution + SHSY5Y cell lysate at 10 μg

Predicted band size: 66 kDa **Observed band size:** 60 kDa

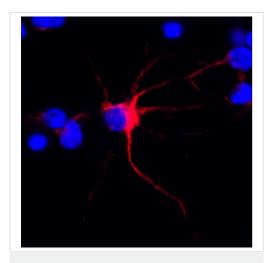


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-alpha Internexin antibody [EP676Y] (ab40758)

Positive staining of alpha Internexin on paraffin-embedded human brain tissue (A) using ab40758 diluited 1:250. Negative staining of paraffin-embedded human colon (B), Kidney (C) and uterus (D) tissues using ab40758 under the same conditions.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

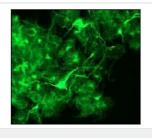
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Antialpha Internexin antibody [EP676Y] (ab40758)

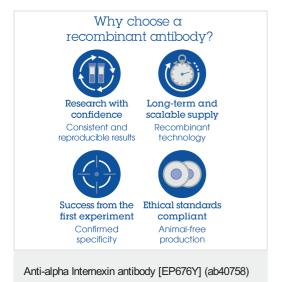
This image is courtesy of an anonymous Abreview

ab40758 staining alpha Internexin in rat glial cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with saponin and blocked with 1% BSA for 10 minutes at 25°C. Samples were incubated with primary antibody (1/200) for 10 hours at 4°C. An undiluted Alexa Fluor[®] 594-conjugated donkey anti-rabbit IgG polyclonal was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Antialpha Internexin antibody [EP676Y] (ab40758)

Immunofluorescent staining of alpha Internexin on PC 12 cells using ab40758 diluted 1:250.



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