abcam

Product datasheet

Alexa Fluor® 488 Anti-PGP9.5 antibody [EPR4118] - Neuronal Marker ab302578

Recombinant

RabMAb

3 Images

Overview

Product name Alexa Fluor® 488 Anti-PGP9.5 antibody [EPR4118] - Neuronal Marker

Description Alexa Fluor® 488 Rabbit monoclonal [EPR4118] to PGP9.5 - Neuronal Marker

Host species Rabbit

Conjugation Alexa Fluor® 488. Ex: 495nm, Em: 519nm

Tested applications Suitable for: ICC/IF

Unsuitable for: IHC-Fr

Species reactivity Reacts with: Mouse, Human

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control ICC/IF: SH-SY5Y and Neuro-2a cell lines.

General notes

This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or

conjugation for your experiments, please contact orders@abcam.com.

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**.

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For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle. Store In the Dark.

Storage buffer pH: 7.40

Preservative: 0.02% Sodium azide

Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, 68% PBS

Purity Protein A purified

ClonalityMonoclonalClone numberEPR4118

Isotype IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab302578 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
ICC/IF		1/50.

Application notes Is unsuitable for IHC-Fr.

Target

Function Ubiquitin-protein hydrolase involved both in the processing of ubiquitin precursors and of

ubiquitinated proteins. This enzyme is a thiol protease that recognizes and hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin. Also binds to free monoubiquitin and may prevent its degradation in lysosomes. The homodimer may have ATP-independent ubiquitin ligase activity.

Tissue specificity Found in neuronal cell bodies and processes throughout the neocortex (at protein level).

Expressed in neurons and cells of the diffuse neuroendocrine system and their tumors. Weakly expressed in ovary. Down-regulated in brains from Parkinson disease and Alzheimer disease

patients.

Involvement in disease Parkinson disease 5

Neurodegeneration with optic atrophy, childhood-onset

Sequence similaritiesBelongs to the peptidase C12 family.

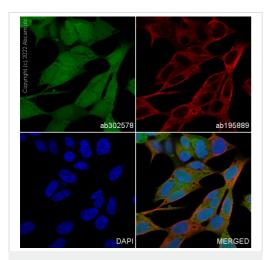
Post-translational O-glycosylated.

modifications

Cellular localization Cytoplasm. Endoplasmic reticulum membrane. About 30% of total UCHL1 is associated with

membranes in brain.

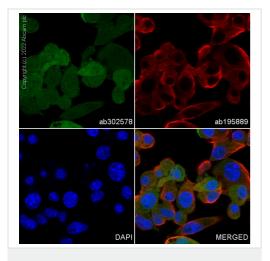
Images



Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 488 Anti-PGP9.5 antibody [EPR4118] -Neuronal Marker (ab302578)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized SH-SY5Y (human neuroblastoma epithelial cells) labeling PGP9.5 with ab302578 at 1/50 dilution (10.0 μ g/ml) (green). Confocal image showing cytoplasmic and nuclear staining in SH-SY5Y cells. The nuclear counter stain is DAPI (blue).

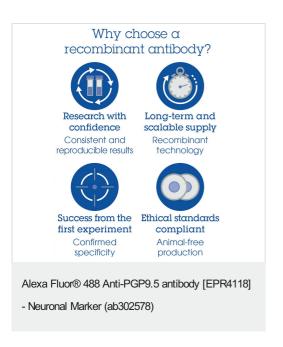
Tubulin is detected with <u>ab195889</u> Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor[®] 594) at 1:200 dilution (2.5 μ g/mL) (red).



Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 488 Anti-PGP9.5 antibody [EPR4118] -Neuronal Marker (ab302578)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Neuro-2a (mouse neuroblastoma neuroblasts) labeling PGP9.5 with ab302578 at 1/50 dilution (10.0 µg/ml) (green). Confocal image showing cytoplasmic and nuclear staining in Neuro-2a cells. The nuclear counter stain is DAPI (blue).

Tubulin is detected with <u>ab195889</u> Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor[®] 594) at 1:200 dilution (2.5 μ g/mL) (red).



Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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