

Product datasheet

Anti-DARPP32 antibody [EP721Y] ab40802

Recombinant RabMAb

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Overview

Product name	Anti-DARPP32 antibody [EP721Y]
Description	Rabbit monoclonal [EP721Y] to DARPP32
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P, IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human brain lysate and human gastric adenocarcinoma. SH-SY5Y (human neuroblastoma) and human fetal forebrain tissue lysates.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.11% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal

Clone number EP721Y
Isotype IgG

Applications

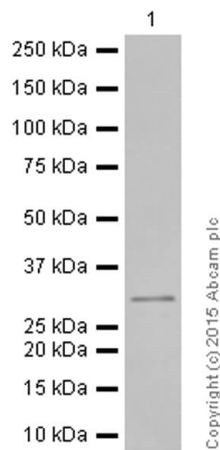
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab40802 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/50 - 1/100.
WB		1/5000 - 1/50000. Detects a band of approximately 32 kDa (predicted molecular weight: 32 kDa). Unpurified format: 1/5,000 - 1/20,000
IHC-P		1/50 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/50.

Target

Function Inhibitor of protein-phosphatase 1.
Sequence similarities Belongs to the protein phosphatase inhibitor 1 family.
Post-translational modifications Dopamine- and cyclic AMP-regulated neuronal phosphoprotein. Phosphorylation of Thr-34 is required for activity.
Cellular localization Cytoplasm.

Images



Western blot - Anti-DARPP32 antibody [EP721Y] (ab40802)

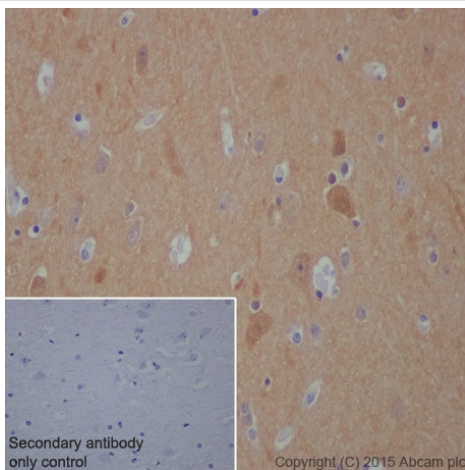
Anti-DARPP32 antibody [EP721Y] (ab40802) at 1/50000 dilution + Human brain tissue lysates. at 10 µg

Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 32 kDa

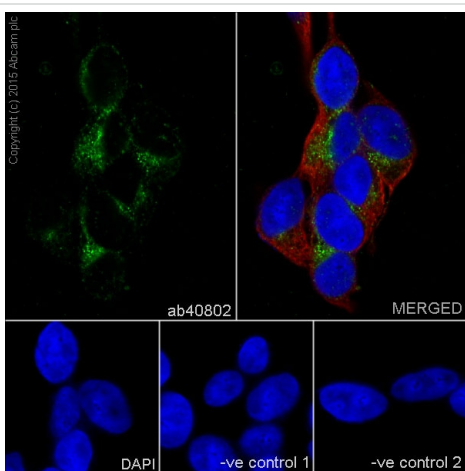
Additional bands at: 32 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DARPP32 antibody [EP721Y] (ab40802)

ab40802 staining DARPP32 in human cerebral cortex tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Antigen retrieval was by heat mediation in a EDTA buffer. Samples were incubated with primary antibody at a dilution of 1/500. A goat anti-rabbit IgG H&L (HRP) **ab97051** was used as the secondary antibody.

Negative control 1: PBS in place of primary antibody.

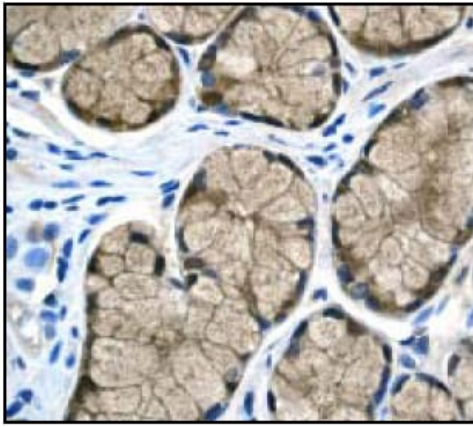


Immunocytochemistry/ Immunofluorescence - Anti-DARPP32 antibody [EP721Y] (ab40802)

ab40802 staining DARPP32 in SH-SY5Y (human neuroblastoma) cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 100% methanol and permeabilized with 0.1% Triton X-100. Samples were incubated with primary antibody at a dilution of 1/100. A goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a dilution of 1/1000. **ab7291** and **ab150120** were used as counterstains for primary antibody ab40802 and secondary antibody **ab150077** respectively and DAPI was used as a nuclear counterstain.

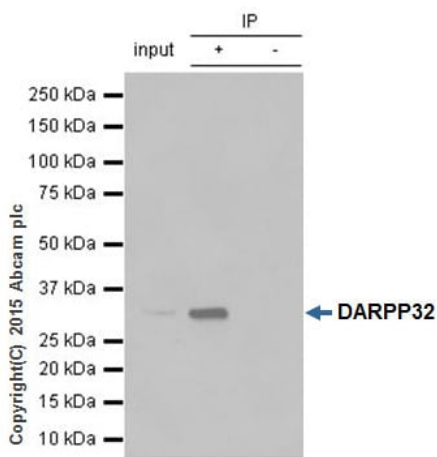
Negative control 1: Rabbit primary antibody and anti-mouse secondary antibody (**ab150120**)

Negative control 2: Mouse primary antibody (**ab7291**) and anti-rabbit secondary antibody (**ab150077**)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DARPP32 antibody [EP721Y] (ab40802)

Immunohistochemical analysis human gastric adenocarcinoma using ab40802. (dilution 1:250)



Immunoprecipitation - Anti-DARPP32 antibody [EP721Y] (ab40802)


ab40802 immunoprecipitating DARPP32. 10µg of cell lysate was incubated with primary antibody at a dilution of 1/50 and VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at a dilution of 1/10000.

Lane 1: Human fetal forebrain whole cell lysate (10ug)

Lane 2: Human fetal forebrain whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab40802 in Human fetal forebrain whole cell lysate

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-DARPP32 antibody [EP721Y] (ab40802)

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