abcam

Product datasheet

Anti-Rab3A antibody ab80192

4 Images

Overview

Product name	Anti-Rab3A antibody
Description	Rabbit polyclonal to Rab3A
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
	Predicted to work with: Sheep, Cow, Pig, Zebrafish
Immunogen	Synthetic peptide corresponding to Human Rab3A aa 1-100 (N terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as **ab90256**)
Positive control	This antibody gave a positive signal in the following lysates: Human Brain tissue; Human Brain membrane extract; Rat Brain Tissue; Mouse Brain Tissue; PC12 Whole Cell.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.
	If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
	Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

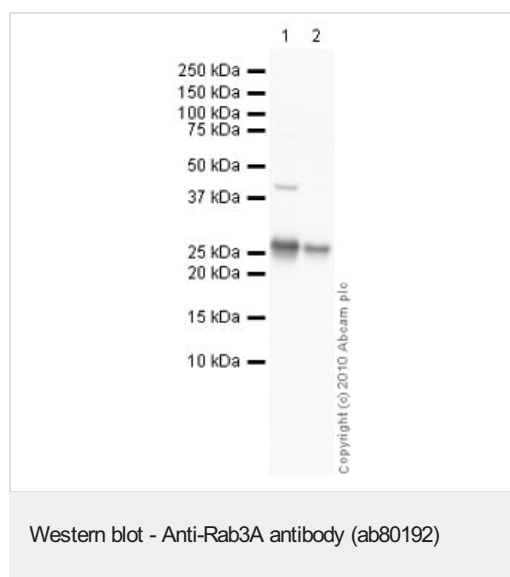|	
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab80192 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		Use a concentration of 1 µg/ml. Detects a band of approximately 26 kDa (predicted molecular weight: 24 kDa).
ICC/IF		Use a concentration of 1 µg/ml.

Target

Function	Involved in exocytosis by regulating a late step in synaptic vesicle fusion. Could play a role in neurotransmitter release by regulating membrane flow in the nerve terminal.
Tissue specificity	Specifically expressed in brain.
Sequence similarities	Belongs to the small GTPase superfamily. Rab family.
Cellular localization	Cell membrane.

Images

Western blot - Anti-Rab3A antibody (ab80192)

All lanes : Anti-Rab3A antibody (ab80192) at 1 µg/ml

Lane 1 : Human brain tissue lysate - total protein (**ab29466**)

Lane 2 : Human brain normal tissue lysate - membrane extract (**ab29456**)

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

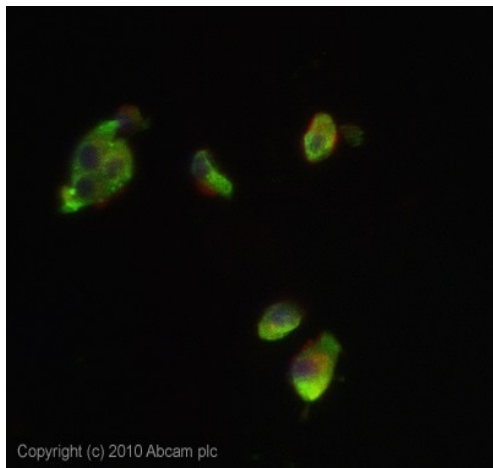Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 24 kDa

Observed band size: 26 kDa
Additional bands at: 43 kDa. We are unsure as to the identity of these extra bands.
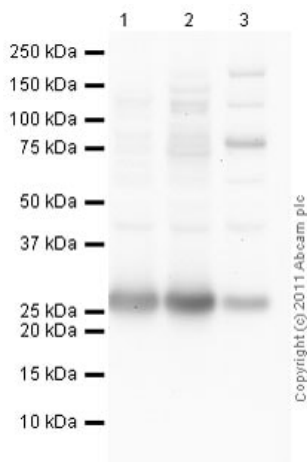
Exposure time: 30 seconds

Ras-related protein Rab-3A contains a number of potential phosphorylation sites (SwissProt data) which may explain it running at a higher molecular weight (26 kDa) than predicted (24 kDa).

Immunocytochemistry/ Immunofluorescence - Anti-Rab3A antibody (ab80192)

ICC/IF image of ab80192 stained PC12 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal Goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab80192, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 Goat anti-Rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Western blot - Anti-Rab3A antibody (ab80192)

All lanes : Anti-Rab3A antibody (ab80192) at 1 µg/ml

Lane 1 : Brain (Mouse) Tissue Lysate
Lane 2 : Brain (Rat) Tissue Lysate
Lane 3 : PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution
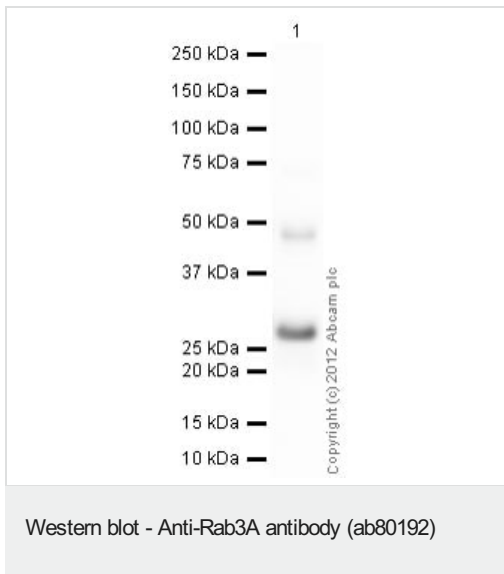
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 24 kDa

Observed band size: 26 kDa

Exposure time: 2 minutes

Western blot - Anti-Rab3A antibody (ab80192)

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

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