

Product datasheet

Anti-GABA A Receptor alpha 2/GABRA2 antibody [N399/19] ab193311

1 References 2 Images

Overview

Product name	Anti-GABA A Receptor alpha 2/GABRA2 antibody [N399/19]
Description	Mouse monoclonal [N399/19] to GABA A Receptor alpha 2/GABRA2
Host species	Mouse
Tested applications	Suitable for: IHC-P, ICC/IF, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Fusion protein corresponding to Rat GABA A Receptor alpha 2/GABRA2 aa 350-450.
Positive control	ICC/IF: SKNSH cell line.
General notes	<p>This antibody clone is manufactured by Abcam.</p> <p>If you require this antibody in a particular buffer formulation or a particular conjugate for your experiments, please contact orders@abcam.com or you can find further information here.</p> <p>This product was previously labelled as GABA A Receptor alpha 2</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 6.97% L-Arginine</p>
Purity	Protein G purified
Clonality	Monoclonal
Clone number	N399/19
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab193311** in the following tested applications.

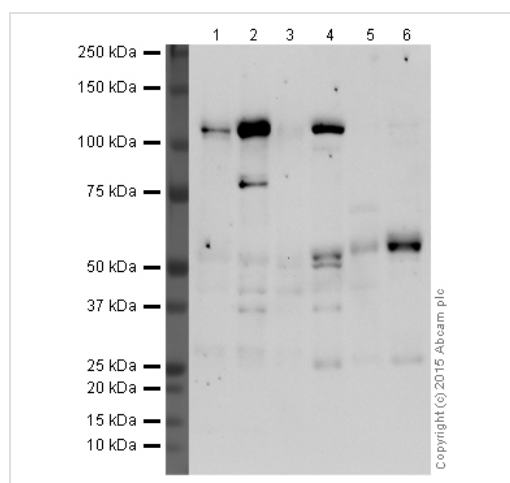
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 10 µg/ml.
WB		Use a concentration of 1 - 5 µg/ml. Detects a band of approximately 52,104 kDa (predicted molecular weight: 51 kDa).

Target

Function	GABA, the major inhibitory neurotransmitter in the vertebrate brain, mediates neuronal inhibition by binding to the GABA/benzodiazepine receptor and opening an integral chloride channel.
Sequence similarities	Belongs to the ligand-gated ion channel (TC 1.A.9) family. Gamma-aminobutyric acid receptor (TC 1.A.9.5) subfamily. GABRA2 sub-subfamily.
Cellular localization	Cell junction > synapse > postsynaptic cell membrane. Cell membrane.

Images



Western blot - Anti-GABA A Receptor alpha 2/GABRA2 antibody [N399/19] (ab193311)

All lanes : Anti-GABA A Receptor alpha 2/GABRA2 antibody [N399/19] (ab193311) at 1 µg/ml

Lane 1 : Brain (Mouse) Tissue Lysate

Lane 2 : Brain (Rat) Tissue Lysate

Lane 3 : Human brain tissue lysate - total protein ([ab29466](#))

Lane 4 : Pancreas (Rat) Tissue Lysate

Lane 5 : Human pancreas tissue lysate - total protein ([ab29816](#))

Lane 6 : Pancreas (Mouse) Tissue Lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/5000 dilution

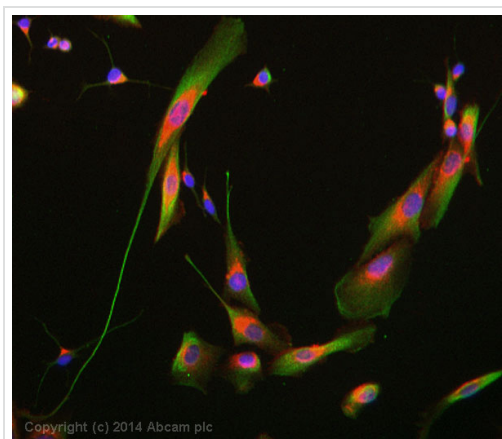
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 51 kDa

Additional bands at: 104 kDa (possible dimer)

Exposure time: 20 minutes



Immunocytochemistry/ Immunofluorescence - Anti-GABA A Receptor alpha 2/GABRA2 antibody [N399/19] (ab193311)

ICC/IF image of ab193311 stained SKNSH cells. The cells were 100% methanol fixed (5 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 ab193311 at 10µg/ml overnight at +4°C. The secondary antibody (pseudo-colored green) was Alexa Fluor® 488 goat anti- mouse (ab150117) IgG (H+L) preadsorbed, used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1h at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1hour at room temperature.

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

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