Datasheet for ABIN1742459

anti-GABRA3 antibody (AA 29-43)

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Overview

Quantity:	50 µg
Target:	GABRA3
Binding Specificity:	AA 29-43
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC)

Product Details

Immunogen:	Synthetic peptide (aa 29-43 of rat GABA-A receptor alpha3 precursor protein) coupled to key-hole limpet hemocyanin via an added C-terminal cysteine residue.
Specificity:	Specific for GABA-A receptor alpha3.
Purification:	Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization.

Target Details

Target:	GABRA3
Alternative Name:	GABA-A Receptor Alpha3 (GABRA3 Products)
Background:	Synonyms: GABA(A) R alpha3

Application Details

Application Notes:	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: 1 : 500 IHC: 1 : 500
Comment:	WB: This protein aggregates after boiling, making it necessary to run SDS-PAGE with non-boiled samples. IHC: This antibody requires antigen retrieval with pepsin according to: Lorincz A & Nusser Z (2008).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	For reconstitution add 50 µL H2O to get a 1mg/ml solution of antibody in PBS. Then aliquot and store at -20 °C until use.
Buffer:	PBS
Handling Advice:	Affinity purified antibodies are less robust than antisera, since protease inhibitors are also removed during purification. Hence, storage at 4 °C for prolonged periods (i.e. several weeks), is not recommended.
Storage:	-20 °C
Storage Comment:	Unlabeled lyophilized antibodies are stable in this form without loss of quality at ambient temperatures for several weeks or even months. They can be stored at 4°C for several years. Lyophilized antibodies must not be stored in the freezer, they may be destroyed!

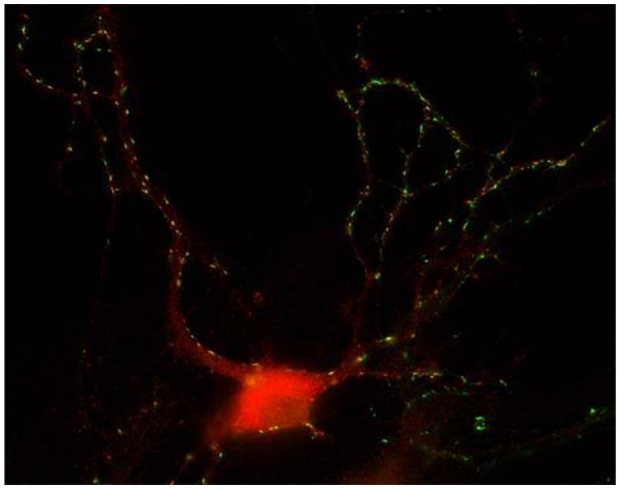
Publications

Product cited in:	Matthäus, Haddjeri, Sánchez, Martí, Bahri, Rovera, Schloss, Lau: "The allosteric citalopram binding site differentially interferes with neuronal firing rate and SERT trafficking in serotonergic neurons." in: **European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology**, Vol. 26, Issue 11, pp. 1806-1817, (2016) (PubMed). Andres, Keyser, Petrali, Benton, Hubbard, McNutt, Ray: "Morphological and functional differentiation in BE(2)-M17 human neuroblastoma cells by treatment with Trans-retinoic acid." in: **BMC neuroscience**, Vol. 14, pp. 49, (2013) (PubMed).

Publications

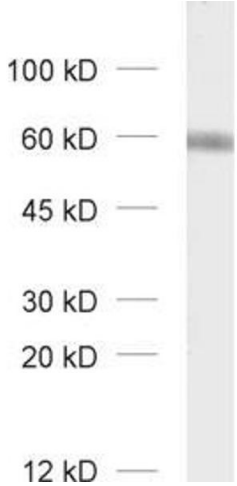
Lau, Heimann, Bartsch, Schloss, Weber: "Nongenomic, glucocorticoid receptor-mediated regulation of serotonin transporter cell surface expression in embryonic stem cell derived serotonergic neurons." in: **Neuroscience letters**, Vol. 554, pp. 115-20, (2013) (PubMed).

Images



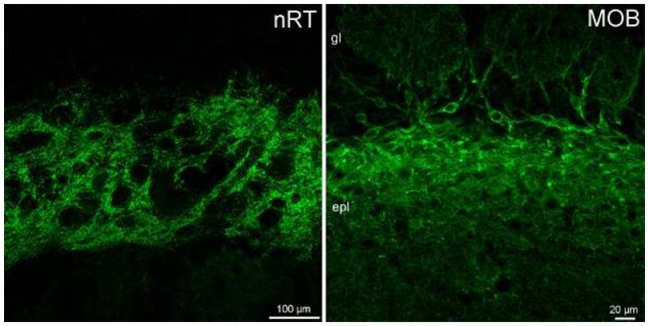
Immunocytochemistry

Image 1. Indirect immunostaining of hippocampus neurons with anti-GABA-A receptor α3 (dilution 1 : 500; red) and mouse anti-Synapsin 1 (cat. no. 106 001, dilution 1 : 500; green).



Western Blotting

Image 2. dilution: 1 : 1000, sample: unboiled synaptic membrane fraction of rat brain (LP1)



Immunohistochemistry

Image 3. Indirect immunostaining of PFA fixed mouse brain sections (dilution 1 : 500).