abcam

Product datasheet

Anti-GABRD antibody [N151/3] ab93619

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Overview

Product name	Anti-GABRD antibody [N151/3]
Description	Mouse monoclonal [N151/3] to GABRD
Host species	Mouse
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Rat, Human **Predicted to work with:** Cow
Immunogen	Synthetic peptide corresponding to Rat GABRD aa 15-34. Sequence: CTQPHHGARAMNDIGDYVGSN Run BLAST with Run BLAST with
Positive control	Rat brain lysate
General notes	The clone number has been updated from S151-3 to N151/3, both clone numbers name the same antibody clone. 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 -20ºC.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	N151/3

Isotype IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab93619 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		1/1000. Predicted molecular weight: 51 kDa.
ICC/IF		1/10.

Target

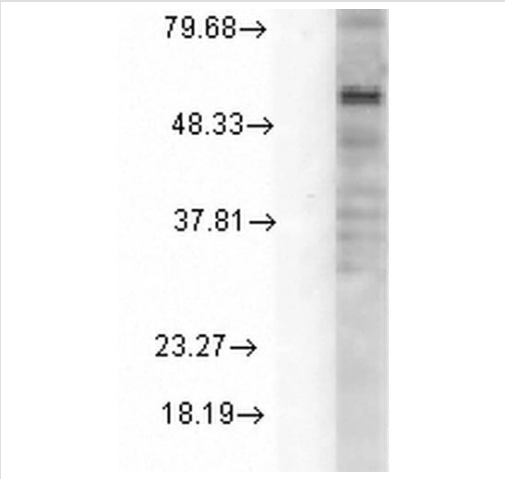
Function GABA, the major inhibitory neurotransmitter in the vertebrate brain, mediates neuronal inhibition by binding to the GABA/benzodiazepine receptor and opening an integral chloride channel.

Involvement in disease Defects in GABRD are the cause of susceptibility to generalized epilepsy with febrile seizures plus type 5 (GEFS+5) [MIM:604233]. Generalized epilepsy with febrile seizures-plus refers to a rare familial condition with incomplete penetrance and large intrafamilial variability. Patients display febrile seizures persisting sometimes beyond the age of 6 years and/or a variety of afebrile seizure types. GEFS+ is a disease combining febrile seizures, generalized seizures often precipitated by fever at age 6 years or more, and partial seizures, with a variable degree of severity.
Defects in GABRD are the cause of susceptibility to idiopathic generalized epilepsy type 10 (IGE10) [MIM:613060]. A disorder characterized by recurring generalized seizures in the absence of detectable brain lesions and/or metabolic abnormalities. Generalized seizures arise diffusely and simultaneously from both hemispheres of the brain.
Defects in GABRD are the cause of susceptibility to juvenile myoclonic epilepsy type 7 (EJM7) [MIM:613060]. A subtype of idiopathic generalized epilepsy. Patients have afebrile seizures only, with onset in adolescence (rather than in childhood) and myoclonic jerks which usually occur after awakening and are triggered by sleep deprivation and fatigue.

Sequence similarities Belongs to the ligand-gated ion channel (TC 1.A.9) family. Gamma-aminobutyric acid receptor (TC 1.A.9.5) subfamily. GABRD sub-subfamily.

Cellular localization Cell junction > synapse > postsynaptic cell membrane. Cell membrane.

Images



Western blot - Anti-GABRD antibody [N151/3] (ab93619)

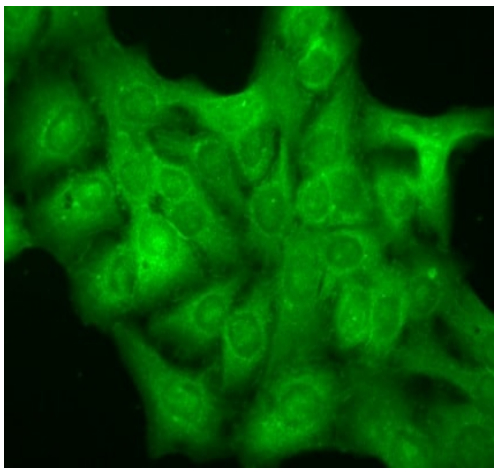
Anti-GABRD antibody [N151/3] (ab93619) at 1/1000 dilution + Rat cell line lysates at 15 µg

Secondary

Sheep Anti-Mouse IgG HRP

Predicted band size: 51 kDa

Block: 15% BSA for 30 minutes at RT



Immunocytochemistry/ Immunofluorescence - Anti-GABRD antibody [N151/3] (ab93619)

Cold 100% methanol for 10 minutes at -20°C fixed human HaCaT cells labeling GABRD (green) using ab93619 at 1/10 dilution in ICC/IF.

FITC Goat Anti-Mouse was used as the secondary antibody at 1/50 dilution for 1 hour at room temperature. STaining in the diffuse cytoplasm and dull nuclei is observed.

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