Rat $GABA_B$ R2 Alexa Fluor® 750-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1188S
100 µg

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat $GABA_B$ R2 N-Terminus in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat $GABA_B$ R2 Trp41-Ser482 (Phe337Tyr) Accession # O88871
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

GABBR2 is half of a heterodimeric GPCR for GABA which mediates coupling to G proteins. B-type receptors for the neurotransmitter GABA (gamma-aminobutyric acid) inhibit neuronal activity through G protein-coupled second-messenger systems, which regulate the release of neurotransmitters and the activity of ion channels and adenylyl cyclase As a homodimer, GABBR2 is retained in the endoplasmic reticulum and endoplasmic reticulum-Golgi intermediate compartment. When GBR1/GBR2 heterodimers are present they are localized to the plasma membrane. GABBR2 is differentially expressed in the nervous system. GABBR2 and GABBR1 mRNA's are coexpressed in various brain regions such as the Purkinje cell layer of the cerebellum. In situ hybridization histochemistry using an antisensce probe to this novel receptor indicates GABBR2 is found exclusively in neurons. GABBR2 is implicated in synaptic inhibition, hippocampal long-term potentiation, slow wave sleep, muscle relaxation and nociception.

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