Store at -200

GABA(B)R2 (C44A4) Rabbit mAb



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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 105	Source/Isotype: Rabbit IgG	UniProt ID: #O75899	Entrez-Gene Id: 9568	
Product Usage Information	Application			Dilution			
	Western Blotting			1:1000			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitivity		GABA(B)R2 (C44A4) Rabbit mAb detects endogenous levels of total GABA(B)R2 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Gln430 of human GABA(B)R2.					
Background	inter GAE tran: inhib GAE Two 95 k hydr	GABA (y-aminobutyric acid) is the primary inhibitory neurotransmitter in the central nervous system and interacts with three different receptors: GABA(A), GABA(B) and GABA(C) receptor. The ionotropic GABA(A) and GABA(C) receptors are ligand-gated ion channels that produce fast inhibitory synaptic transmission. In contrast, the metabotropic GABA(B) receptor is coupled to G proteins that modulate slow inhibitory synaptic transmission (1). Functional GABA(B) receptors form heterodimers of GABA(B)R1 and GABA(B)R2 where GABA(B)R1 binds the ligand and GABA(B)R2 is the primary G protein contact site (2). Two isoforms of GABA(B)R1 have been cloned: GABA(B)R1a is a 130 kD protein and GABA(B)R1b is a 95 kD protein (3). G proteins subsequently inhibit adenyl cylase activity and modulate inositol phospholipid hydrolysis. GABA(B) receptors have both pre- and postsynaptic inhibitions: presynaptic GABA(B) receptors inhibit neurotransmitter release through suppression of high threshold calcium channels, while					

Background References

1. Jones, K.A. et al. (2000) Neuropsychopharmacology 23, S41-9.

term potentiation, slow wave sleep and muscle relaxation (1).

- 2. Duthey, B. et al. (2002) J Biol Chem 277, 3236-41.
- 3. Kaupmann, K. et al. (1997) Nature 386, 239-46.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

postsynaptic GABA(B) receptors inhibit through coupled activation of inwardly rectifying potassium channels. In addition to synaptic inhibition, GABA(B) receptors may also be involved in hippocampal long-

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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