

GUINEA PIG ANTI-GABAB-R2 RECEPTOR POLYCLONAL ANTIBODY

CATALOG NUMBER: AB5394 **QUANTITY:** 50 μ L

LOT NUMBER:

SPECIFICITY: GABAB-R2 receptor. The antiserum stains nerve fibers and cell bodies in untreated animals. The staining pattern for the immunoreactive cell bodies obtained with the GABAB-R2 receptor antiserum corresponds to the pattern described using *in situ* hybridization with probes to rat GABAB-R2 receptor mRNA (Durkin et al., 1999). Strong GABAB-R2 receptor immunoreactivity is e.g. demonstrated in the Purkinje cells of the cerebellum, in the cerebral cortex, in the medial habelulæ, in the spinal cord and in the brainstem. In individual Purkinje neurons, the immunoreactivity is preferentially observed in the periphery of the cells, most likely corresponding to the plasma membrane, but also in the entire dendritic tree extending into the molecular cell layer of the cerebellum.

IMMUNOGEN: Synthetic peptide corresponding to the C-terminal amino acids of the rat and human GABAB-R2 receptor protein (Kaupman et al., 1998; White et al., 1998; Jones et al., 1998; Martin et al., 1999).

APPLICATIONS: Immunohistochemistry: 1:1,000-1:2,000 using a cyanine conjugated secondary antibody. Light 4% PFA fixation recommended. Permeabilization with 0.1-.2% triton in the block only; enzymatic detection can be used however substantially higher primary antibody dilutions will be necessary. Traditional formalin fixation is not recommended.
Optimal working dilutions must be determined by the end user.

SPECIES REACTIVITY: Reacts with Rat and Spider. It is expected that the antibody will work on human due to immunogen sequence homology. Reactivity with other species has not been determined.

FORMAT: Neat Guinea pig serum.

PRESENTATION: Liquid. Contains no preservative.

STORAGE/HANDLING: Maintain frozen at -20 °C in undiluted aliquots for up to 6 months. Avoid repeated freeze/thaw cycles.

REFERENCES: Kuhn, S. A. et al. (2004). Microglia express GABA(B) receptors to modulate interleukin release. *Mol. Cell Neurosci.* **25**(2):312-322.

Waldvogel, H. J. et al. (2004). Comparative cellular distribution of GABA(A) and GABA(B) receptors in the human basal ganglia: Immunohistochemical colocalization of the alpha1 subunit of the GABA(A) receptor, and the GABA(B) R1 and GABA(B) R2 receptor subunits. *J. Comp. Neurol.* **470**:339-356.

Kuhn, S.A. et al. (2004). Microglia express GABA(B) receptors to modulate interleukin release. *Molecular and Cellular Neuroscience* **25**:1470-1480.

Panek, I *et al.* (2003). THE DISTRIBUTION AND FUNCTION OF METABOTROBIC GABA RECEPTORS IN THE SPIDER PERIPHERAL MECHANOSENSILLA. Poster, Goettingen

Widmer, A *et al* (2003). Muscarinic ACh Receptors On Spider Peripheral Mechanosensilla. Poster, Neuroscience 2003 269.3

Leite-Morris KA *et al* (2002). Opiate-induced motor stimulation is regulated by gamma aminobutyric acid type B receptors found in the ventral tegmental area in mice. *Neurosci Letters* **317**:119-122.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.



upstate | CHEMICON | *Linco*

THE EXPERTISE OF UPSTATE®, CHEMICON® AND LINCO®
IS NOW A PART OF MILLIPORE

©2002 - 2011: Millipore Corporation. All rights reserved. No part of these works may be reproduced in any form without permission in writing.

28820 Single Oak Drive • Temecula, CA 92590
Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502
www.millipore.com