

**MOUSE ANTI-GLUTAMINE SYNTHETASE
MONOCLONAL ANTIBODY**

CATALOG NUMBER:	MAB302
LOT NUMBER:	
QUANTITY:	100 µg
CONCENTRATION:	1.0 mg/mL
SPECIFICITY:	Reacts strongly with a single band on Western blots of sheep brain and rat brain.
BACKGROUND:	Glutamine synthetase, an enzyme that catalyzes the amination of glutamic acid to form glutamine, is found in mammals as an octamer of eight identical 45 kDa subunits. Glutamine synthetase activity has been shown to be a useful marker of astrocytes and an important differentiation feature in retina. Glutamine synthetase is also considered to be a key enzyme in the recycling of the neurotransmitter glutamate.
IMMUNOGEN:	Glutamine synthetase purified from sheep brain.
ISOTYPE:	IgG _{2a}
APPLICATIONS:	Western blot: 1:1,000-1:5,000 Immunohistochemistry on rat brain ELISA Optimal working dilutions must be determined by end user.
SPECIES REACTIVITIES:	Sheep and rat. It is also reported that the antibody works on human and mouse. Other species have not been tested.
FORMAT:	Purified immunoglobulin.
PRESENTATION:	Liquid in PBS containing ≤ 0.09% sodium azide.
STORAGE/HANDLING:	Maintain antibody at 2-8°C in undiluted aliquots for up to 6 months after date of receipt.
REFERENCES:	<ol style="list-style-type: none">1. <i>J. Neurosci. Res.</i> (1991). 28:497-506.2. <i>Mol. Cell. Biol.</i> (1991). 11:5275-5284.3. <i>J. Neurochemistry</i> (1995) 65:2146-2156.4. <i>Experimental Neurology</i> (1996) 139:167-171.5. <i>J. Neurochemistry</i> (1996) 66:2050-2056.6. <i>Exp. Eye Res.</i> (1997) 64:519-527.7. Strettoi, E., et al., <i>J. Neuroscience</i> (2002) 22:5492-5504.8. Weiner, I.D., et al., <i>Gastroenterology</i> (2003) 124:1432-1440.9. Ward, M. et al., <i>Cell Tissue Res</i> (2004) 315:305-310.10. Wilhelmsson, U., et al., <i>J. Neuroscience</i> (2004) 24:5016-5021.11. Suarez, I., et al., <i>Neuropathol Appl Neurobiol.</i> (2005) 31:163-169.12. Oh, E., et al., <i>PNAS</i> (2007) 104:1679-1684.

Important Note: *During shipment, small volumes of antibody will occasionally become entrapped in the seal of the product vial. For antibodies with volumes of 200 μ L 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.*

Millipore has a complete listing of our affinity purified second antibodies and conjugates listed in our Immunological Reagents Catalog. CHEMICON Technical Service would be happy to assist you in selecting an appropriate antibody for your system. Call our Technical Service Department for additional information now at 1-800-437-7500.

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