Advanced Targeting Systems

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Alexa488-labeled Antibody to GAT-1
RABBIT POLYCLONAL

Catalog Number: AB-N37-FLA
Quantity: 50 micrograms
Format: 50% PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), 50% glycerol; no preservative.
Host: Rabbit
Immunogen: a peptide from the GAT-1 extracellular domain

Background: GAT-1 is a sodium-coupled neurotransmitter transporter responsible for moving γ-aminobutyric acid (GABA) across cell membranes. GABA is the predominant inhibitory neurotransmitter in the mammalian central nervous system. GAT-1 is widely distributed in both the central and peripheral nervous systems. GAT -1 and GABA are present in numerous neuronal pathways, some of which are implicated in epilepsy, sleep disorders, neuropathic pain, and attention deficit disorders.

Specificity & Preparation: This antibody recognizes the γ-aminobutyric acid (GABA)-1 transporter, GAT-1, in rat. The antibody is an affinity-purified rabbit polyclonal. It has been conjugated to the fluorescent dye Alexa488. The peptide used as an antigen has 100% sequence homology between rat, human, mouse, and bovine GAT-1.

Storage: Gently spin down material 5-10 seconds in a microfuge before use. The material can be handled safely using normal laboratory precautions. Store the antibody at -20°C for up to one year.

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