ADVANCED TARGETING SYSTEMS

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Alexa488-labeled Antibody to vGAT, affinity purified

RABBIT POLYCLONAL

Catalog Number: FL-N44AP
Quantity: 25 micrograms, 100 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: synthetic vGAT peptide

Background:

Vesicular GABA transporters (vGAT) mediate the accumulation of GABA into synaptic vesicles and its release from nerve terminals. This transporter is expressed in the nerve endings of GABAergic neurons throughout the CNS and has also been found in the pancreas and pituitary gland. During development, expression of the vGAT protein changes. Expression can also change in response to patterns of neuronal activity.

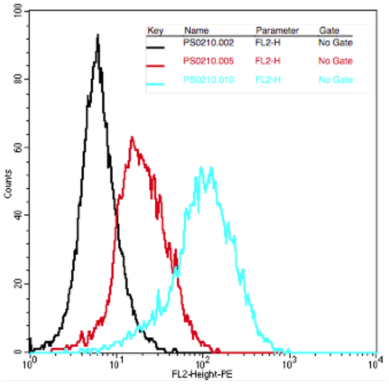
Specificity and Preparation:

This antibody recognizes rat vesicular GABA transporter. Affinity-purified anti-vGAT was raised against the C–terminal of the rat vesicular GABA transporter. The antigen sequence is identical among human, rat, mouse, pig and guinea pig. The antibody was affinity-purified and has been conjugated to the fluorescent dye Alexa488. The antibody is routinely tested by flow cytometry.

Usage and Storage:

Applications include flow cytometry (ATS in-house; 1:1000). Working dilutions must be determined by end user.
Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. The material can be handled safely using normal laboratory precautions. See Lot Number for lot-specific storage instructions.

To view protocol(s) for this and other products please visit: www.ATSbio.com/support/protocols



HEK-293 cells (black line) and HEK-293 vGAT transfectants clone 2E11 (blue line) were incubated with 10 ug of Anti-vGAT antibody for 1 hour. PE was used as the secondary and was applied at 2 ug per sample for 30 minutes. The control in this figure (red line) is secondary PE alone on HEK-293 vGAT cells. Each sample contained 2 x 10^6 cells. Data analysis was done with CellQuest software.