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Anti-BGT-1 Antibody

Catalog # AP60143

Product Information

Application	WB, IF/IC
Primary Accession	P48065
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	69368

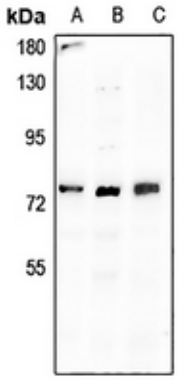
Additional Information

Gene ID	6539
Other Names	Sodium- and chloride-dependent betaine transporter; BGT-1; Na(+)/Cl(-) betaine/GABA transporter; Solute carrier family 6 member 12
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human BGT-1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

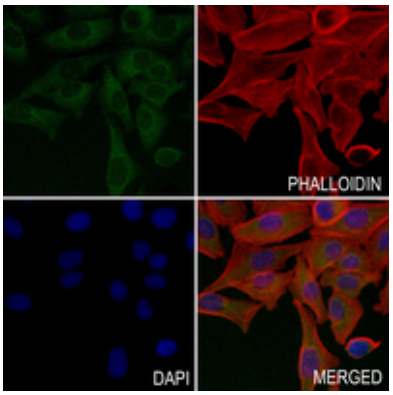
Protein Information

Name	SLC6A12 (HGNC:11045)
Function	Transporter that mediates cellular uptake of betaine and GABA in a sodium- and chloride-dependent process (PubMed:7589472). May have a role in regulation of GABAergic transmission in the brain through the reuptake of GABA into presynaptic terminals, as well as in osmotic regulation. Probably also involved in renal and hepatic osmotic regulation (By similarity).
Cellular Location	Basolateral cell membrane {ECO:0000250|UniProtKB:P31651}; Multi-pass membrane protein. Cell membrane {ECO:0000250|UniProtKB:P31651}; Multi-pass membrane protein. Note=In kidney, locates in basolateral membranes of renal medulla. In liver, locates in hepatocytes cell membrane. {ECO:0000250|UniProtKB:P31651}
Tissue Location	Expressed in kidney, liver, heart, skeletal muscle, placenta, and a widespread distribution in the brain

Images



Western blot analysis of BGT-1 expression in NIHC3T3 (A), LO2 (B), SGC7901 (C) whole cell lysates. (Predicted band size: 69 kD; Observed band size: 75 kD)



Immunofluorescent analysis of BGT-1 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.