

Anti-BGT-1 Antibody

Rabbit polyclonal antibody to BGT-1 Catalog # AP60143

Specification

Anti-BGT-1 Antibody - Product Information

Application WB
Primary Accession P48065
Other Accession P31651

Reactivity
Host
Clonality
Human, Mouse, Rat
Rabbit
Polyclonal

Calculated MW 69368

Anti-BGT-1 Antibody - 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

Recognizes endogenous levels of BGT-1 protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C.Stable for 12 months from date of receipt

Anti-BGT-1 Antibody - Protein Information

Name SLC6A12 (<u>HGNC:11045</u>)

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

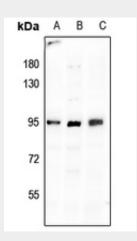
Expressed in kidney, liver, heart, skeletal muscle, placenta, and a widespread distribution in the brain

Anti-BGT-1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Anti-BGT-1 Antibody - Images



Western blot analysis of BGT-1 expression in NIH3T3 (A), LO2 (B), SGC7901 (C) whole cell lysates.

Anti-BGT-1 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human BGT-1. The exact sequence is proprietary.