

### SLC6A12 / BGT-1 Antibody (C-Terminus)

Goat Polyclonal Antibody Catalog # ALS16102

# **Specification**

# SLC6A12 / BGT-1 Antibody (C-Terminus) - Product Information

Application WB
Primary Accession P48065
Reactivity Human
Host Goat
Clonality Polyclonal
Calculated MW 69kDa KDa

# SLC6A12 / BGT-1 Antibody (C-Terminus) - 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, SLC6A12

### Target/Specificity

Human SLC6A12 / BGT-1. Reported variants represent identical protein: NP\_001193860.1, NP\_003035.3, NP\_001116319.1, NP\_001116320.1.

# **Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

# **Precautions**

SLC6A12 / BGT-1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

### SLC6A12 / BGT-1 Antibody (C-Terminus) - Protein Information

### Name SLC6A12 (HGNC:11045)

# **Function**

Transporter that mediates cellular uptake of betaine and GABA in a sodium- and chloride-dependent process (PubMed:<a href="http://www.uniprot.org/citations/7589472" target="\_blank">7589472</a>). 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**

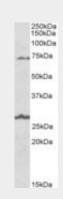
Expressed in kidney, liver, heart, skeletal muscle, placenta, and a widespread distribution in the brain

# SLC6A12 / BGT-1 Antibody (C-Terminus) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# SLC6A12 / BGT-1 Antibody (C-Terminus) - Images



SLC6A12 antibody (1 ug/ml) staining of Human Olfactory bulb lysate (35 ug protein in RIPA buffer).

# SLC6A12 / BGT-1 Antibody (C-Terminus) - Background

Transports betaine and GABA. 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.

# SLC6A12 / BGT-1 Antibody (C-Terminus) - References

Rasola A., et al. FEBS Lett. 373:229-233(1995). Borden L.A., et al. J. Neurochem. 64:977-984(1995). Ota T., et al. Nat. Genet. 36:40-45(2004). Scherer S.E., et al. Nature 440:346-351(2006).

Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.