SLC5A7 monoclonal antibody, clone 62-2E8

Catalog # MAB2295 Size 100 uL

Applications

Immunohistochemistry

Immunohistochemical staining of SLC5A7 on rat basal forebrain with SLC5A7 monoclonal antibody, clone 62-2E8 (Cat # MAB2295).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant SLC5A7.
Immunogen	Recombinant protein corresponding to C-terminus of human SLC5A7.
Host	Mouse
Reactivity	Human, Mouse, Rat
Form	Liquid
Isotype	IgG1
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	Western Blot (1:500) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500) Immunohistochemistry (Frozen sections) (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide)
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunohistochemistry (Frozen sections)
- Immunohistochemistry

  Immunohistochemical staining of SLC5A7 on rat basal forebrain with SLC5A7 monoclonal antibody, clone 62-2E8 (Cat # MAB2295).

Gene Info — SLC5A7

Entrez GeneID	60482
Gene Name	SLC5A7
Gene Alias	CHT, CHT1, MGC126299, MGC126300, hCHT
Gene Description	solute carrier family 5 (choline transporter), member 7
Omim ID	608761
Gene Ontology	Hyperlink
Gene Summary	Choline is a direct precursor of acetylcholine (ACh), a neurotransmitter of the central and peripher al nervous system that regulates a variety of autonomic, cognitive, and motor functions. SLC5A7 i s a Na(+)- and Cl(-)- dependent high-affinity transporter that mediates the uptake of choline for ac etylcholine synthesis in cholinergic neurons (Apparsundaram et al., 2000 [PubMed 11027560]).[s upplied by OMIM
Other Designations	high affinity choline transporter; hemicholinium-3-sensitive choline transporter

Publication Reference

- Vesicular localization and activity-dependent trafficking of presynaptic choline transporters.

  Ferguson SM, Savchenko V, Apparsundaram S, Zwick M, Wright J, Heilman CJ, Yi H, Levey AI, Blakely RD.

  The Journal of Neuroscience 2003 Oct; 23(30):9697.

  Application: IHC, IF, WB-Ti, Mouse, Brain, Spinal cord, Brainstem, Midbrain, Hippocampus, Cortex, Cerebellum, Striatum, Kidney

Disease

- Choice Behavior
- Neuropsychological Tests
- Tobacco Use Disorder