



## S29A4 mouse mAb

Catalog No	BYmab-11011
Isotype	IgG
Reactivity	Human; Mouse
Applications	WB
Gene Name	SLC29A4 ENT4 PMAT PSEC0113
Protein Name	S29A4
Immunogen	Synthesized peptide derived from human S29A4 AA range: 404-454
Specificity	This antibody detects endogenous levels of S29A4 at Human/Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Apical cell membrane ; Multi-pass membrane protein . Located to the plasma membranes of ventricular myocytes and vascular endothelial cells. Targeted to the apical membranes of differentiated kidney epithelial cells. .
Tissue Specificity	Expressed abundantly in the heart, in both cardiomyocytes and vascular endothelial cells (at protein level). Highly expressed in brain, kidney and skeletal muscle. In the brain expressed in cerebellum, cerebral cortex, medulla, occipital pole, frontal and temporal lobes putamen and in the spinal cord. Lower expression in liver, pancreas, and liver. Expressed in endometrial tissue, exclusively in the stroma. Expression is high in the proliferative phase, decreases during the secretory phase, and is no longer detectable in the menstrual phase.
Function	function:Functions as a polyspecific organic cation transporter, efficiently transporting many organic cations such as monoamine neurotransmitters 1-methyl-4-phenylpyridinium and biogenic amines including serotonin, dopamine, norepinephrine and epinephrine. May play a role in regulating central nervous

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system homeostasis of monoamine neurotransmitters. May be involved in luminal transport of organic cations in the kidney and seems to use luminal proton gradient to drive organic cation reabsorption. Does not seem to transport nucleoside and nucleoside analogs such as uridine, cytidine, thymidine, adenosine, inosine, guanosine, and azidothymidine. In (PubMed:16873718) adenosine is efficiently transported but in a fashion highly sensitive to extracellular pH, with maximal activity in the pH range 5.5 to 6.5. Glu-206 is essential for the cation selectivity and may function as the charge sens

#### Background

This gene encodes a member of the SLC29A/ENT transporter protein family. The encoded membrane protein catalyzes the reuptake of monoamines into presynaptic neurons, thus determining the intensity and duration of monoamine neural signaling. It has been shown to transport several compounds, including serotonin, dopamine, and the neurotoxin 1-methyl-4-phenylpyridinium. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014],

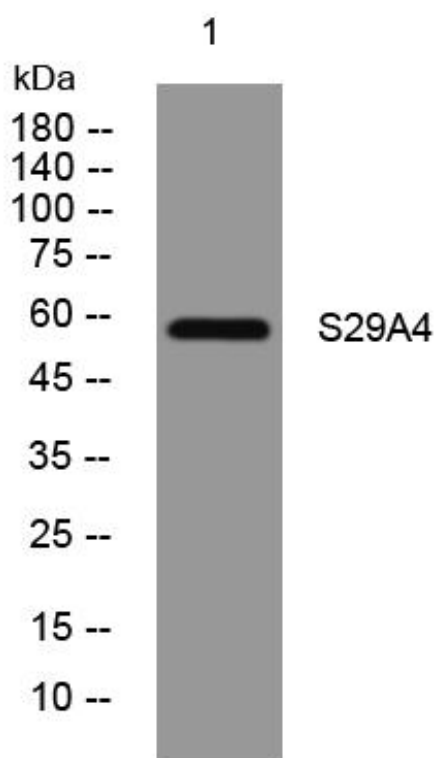
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using S29A4 mouse mAb