Data Sheet (Cat.No.TMAB-01721)

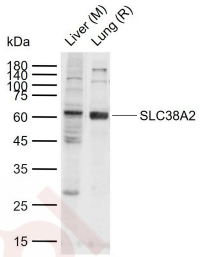
Anti-SLC38A2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Dog,Pig,Cow,Horse,Sheep)
Molecular Weight:	Theoretical: 56 kDa. Actual: 60 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Lane 1: Mouse Liver tissue lysates Lane 2: Rat Lung tissue lysates Primary: Anti-SLC38A2 (TMAB-01721) at 1/200 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 56 kDa Observed band size: 60 kDa



Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human SLC38A2/SNAT2
Antigen Species:	Human
Gene ID:	54407
Uniprot ID:	Q96QD8
Synonyms:	System N amino acid transporter 2;System A amino acid transporter 2;S38A2;KIAA1382;Slc38a2;ATA2;System A amino acid transporter;Protein 40-9-1;Solute carrier family 38 member 2;System A transporter 1;SAT2;Amino acid transporter 2;SNAT2;PRO1068;Amino acid transporter A2;Sodium-coupled neutral amino acid transporter 2

Research Background

The sodium-coupled neutral amino acid transporters (SNAT) of the SLC38 gene family include System A subtypes

SNAT1, SNAT2 and SNAT4 and System N subtypes SNAT3 and SNAT5. The SLC38 transporters are essential for the uptake of nutrients, energy production, metabolism, detoxification, and the cycling of neurotransmitters. SNAT2, also designated ATA2, PRO1068 and SAT2 is encoded by the human gene SLC38A2. The functional role of SNAT2 in the nervous system is unclear. Protein expression is notably enriched in the spinal cord and brain stem nuclei of the auditory system. System A transport proteins are also present in placental tissue. These SNAT proteins may play a significant role in fetal development and inhibition of the transport system has been associated with fetal growth retardation.

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