Data Sheet (Cat.No.TMAB-00781)

Anti-Glyt1 Polyclonal Antibody

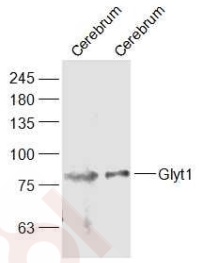
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Cow,Rabbit)
Molecular Weight:	Theoretical: 78 kDa. Actual: 78 kDa.
Purification:	Protein A purified

Applications

Verified Activity:

Sample:
Cerebrum (Mouse) Lysate at 40 µg
Cerebrum (Rat) Lysate at 40 µg
Primary: Anti-Glyt1 (TMAB-00781) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 78 kDa
Observed band size: 78 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 Glyt1/SLC6A9
Antigen Species:	Human
Gene ID:	6536
Synonyms:	SLC6A9;Solute carrier family 6 member 9;SC6A9;Sodium-and chloride-dependent glycine transporter 1;Glyt 1;glycine transporter 1

Research Background

Na+/Cl- dependent neurotransmitter transporters are a superfamily of transmembrane proteins that contain 12 membrane spanning regions (1). Specifically, the highly hydrophobic Na+/Cl- dependent glycine transporters (GlyT) are crucial for the termination of neurotransmission at glycinergic synapses (2,3). Two different GlyT genes encode GlyT2 and GlyT1, which exists as two isoforms produced by alternative splicing of the same gene located on human

chromosome 1p31.3 (3,4). The GlyT1 gene may be an early marker of neural development and encodes glia-specific transporter proteins (3). Although GlyT1 and GlyT2 are both expressed in the brain and spinal cord, each shows a unique pattern of expression (3,5,6). GlyT1 is found only in the white matter of the CNS, whereas GlyT2 is found in the gray matter of the CNS as well as in macrophages and mast cells in peripheral tissues (3,5). The anatomic distribution of GlyT2 mRNA suggests that glycine may act as a supraspinal neurotransmitter and may function as a chemical messenger outside the CNS (5).

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