

Anti-SLC32A1 Polyclonal Antibody

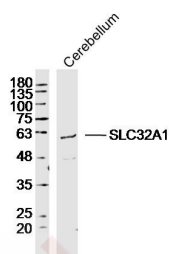
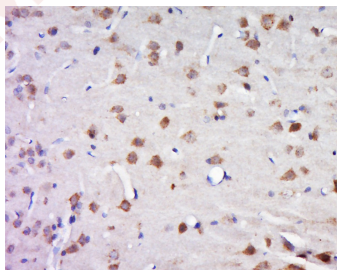
Product Details

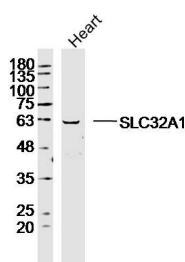
Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Pig,Cow,Rabbit)
Molecular Weight:	Theoretical: 57 kDa. Actual: 60 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-SLC32A1 Polyclonal Antibody, Unconjugated (TMAB-01719) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.
2. Sample: Cerebellum (Mouse) Lysate at 40 µg
Primary: Anti-SLC32A1 (TMAB-01719) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution
Predicted band size: 57 kDa
Observed band size: 57 kDa
3. Sample: Heart (Mouse) Lysate at 40 µg
Primary: Anti-SLC32A1 (TMAB-01719) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution
Predicted band size: 57 kDa
Observed band size: 60 kDa

Verified Activity:





Application: IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

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 SLC30A9

Antigen Species: Human

Gene ID: 140679

Uniprot ID: Q9H598

Synonyms: Solute carrier family 32 member 1;solute carrier family 32(GABA vesicular transporter) member 1;GABA and glycine transporter;Vesicular GABA Amino Acid Transporter;VIAAT;bA122O1.1;hVIAAT;Vesicular inhibitory amino acid transporter;VGAT;SLC32A 1;Vesicular GABA transporter

Research Background

Synaptic transmission involves the controlled exocytosis of vesicles containing specific neurotransmitters. Usually, neurotransmitters are synthesized in the cytoplasm of the cell and must be transported into synaptic vesicles for release. The vesicular GABA transporter (VGAT) is responsible for loading γ -aminobutyric acid (GABA), an inhibitory neurotransmitter, from neuronal cytoplasm into synaptic vesicles and is expressed only in the nerve endings of inhibitory neurons that contain GABA and/or glycine. During neocortical development, VGAT expression barely precedes the maturation of inhibitory synaptogenesis, suggesting that it may contribute to the development of neocortical GABAergic circuitry. VGAT may also play a role in epileptogenesis and the recovery mechanisms that occur after a spontaneous seizure.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481