

Anti-Serotonin transporter/SLC6A4 Antibody Picoband®

Catalog Number: PA1706

About Slc6a4

SLC6A4 (Solute carrier family 6, member 4), also known as SERT (serotonin transporter), is a monoamine transporter protein. The SLC6A4 gene spans 31 kb and contains 14 exons. This protein integral membrane protein that transports the neurotransmitter serotonin from synaptic spaces into presynaptic neurons. This transport of serotonin by the SERT protein terminates the action of serotonin and recycles it in a sodium-dependent manner. This protein is the target of many antidepressant medications, including those of the SSRI class. It is a member of the sodium:neurotransmitter symporter family. A repeat length polymorphism in the promoter of this gene has been shown to affect the rate of serotonin uptake and may play a role in sudden infant death syndrome, aggressive behavior in Alzheimer disease patients, post-traumatic stress disorder and depression-susceptibility in people experiencing emotional trauma.

Overview

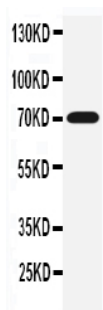
Product Name	Anti-Serotonin transporter/SLC6A4 Antibody Picoband®
Reactive Species	Rat
Description	Boster Bio Anti-Serotonin transporter/SLC6A4 Antibody catalog # PA1706. Tested in IHC, WB applications. This antibody reacts with Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P31652

Technical Details

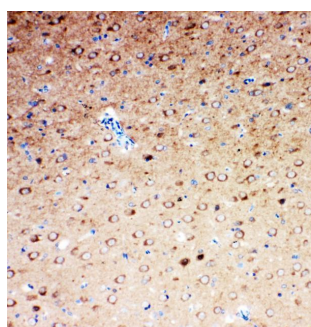
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of rat SLC6A4, different from the related mouse sequence by one amino acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Rat Western blot, 0.1-0.5ug/ml, Rat

Anti-Serotonin transporter/SLC6A4 Antibody Picoband® (PA1706) Images



Anti-SLC6A4 antibody, PA1706, Western blottingWB: Rat Brain Tissue Lysate



Anti-SLC6A4 antibody, PA1706, IHC(P)IHC(P): Rat Brain Tissue

1 Publications Citing This Product

1. PubMed ID: 10.1038/s41380-020-00978-y, Cocaine-induced locomotor stimulation involves autophagic degradation of the dopamine transporter

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Anti-Serotonin transporter/SLC6A4 Antibody

For Research Use Only. Not for use in diagnostic procedures.