Datasheet for ABIN4886722

anti-SLC18A3 antibody (N-Term)

1 Image

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Overview

Quantity:	100 µg
Target:	SLC18A3
Binding Specificity:	AA 1-36, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC18A3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Vesicular Acetylcholine Transporter/SLC18A3 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human SLC18A3, different from the related mouse and rat sequences by five amino acids.
Sequence:	MESAEPAGQA RAAATKLSEA VGAALQEPRR QRRLVL
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Vesicular Acetylcholine Transporter/SLC18A3 Antibody Picoband® (ABIN4886722). Tested in WB applications. This antibody reacts with Human, Mouse. 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.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	SLC18A3
Alternative Name:	SLC18A3 (SLC18A3 Products)
Background:	Synonyms: Vesicular acetylcholine transporter,VAChT,Solute carrier family 18 member 3,SLC18A3,VACHT, Tissue Specificity: Peripheral and central cholinergic nervous systems. . Background: The Vesicular acetylcholine transporter (VAChT), also known as SLC18A3, is a neurotransmitter transporter which is responsible for loadingacetylcholine (ACh) into secretory organelles in neurons making acetylcholine available for secretion. It is encoded by Solute carrier family 18, member 3 (SLC18A3) gene. This gene is a member of the vesicular amine transporter family. The encoded transmembrane protein transports acetylcholine into secretory vesicles for release into the extracellular space. Acetylcholine transport utilizes a proton gradient established by a vacuolar ATPase. This gene is located within the first intron of the choline acetyltransferase gene.
Molecular Weight:	55 kDa
Gene ID:	6572
UniProt:	Q16572

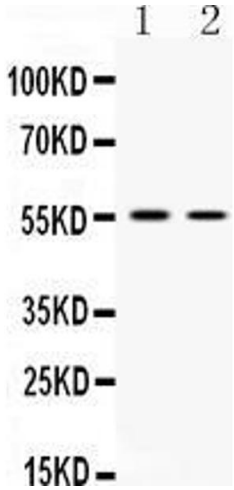
Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Mouse 1. Erickson JD, Varoqui H (Dec 2000). "Molecular analysis of vesicular amine transporter function and targeting to secretory organelles". FASEB Journal. 14 (15): 2450-8. 2. Weihe E, Tao-Cheng JH, Schäfer MK, Erickson JD, Eiden LE (Apr 1996). "Visualization of the vesicular acetylcholine transporter in cholinergic nerve terminals and its targeting to a specific population of small synaptic vesicles". Proceedings of the National Academy of Sciences of the United States of America. 93 (8): 3547-52.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	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.

Images



Western Blotting

Image 1. Western blot analysis of SLC18A3 expression in HELA whole cell lysates (Lane 1) and HEPA whole cell lysates (Lane 2). SLC18A3 at 55KD was detected using rabbit anti- SLC18A3 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).