

## Anti-VMAT2/SLC18A2 Antibody Picoband™

Catalog Number: A02232-1

### About SLC18A2

This gene encodes an transmembrane protein that functions as an ATP-dependent transporter of monoamines, such as dopamine, norepinephrine, serotonin, and histamine. This protein transports amine neurotransmitters into synaptic vesicles. Polymorphisms in this gene may be associated with schizophrenia, bipolar disorder, and other neurological/psychiatric ailments.

### Overview

Product Name	Anti-VMAT2/SLC18A2 Antibody Picoband™
Reactive Species	Human, Rat
Description	Boster Bio Anti-VMAT2/SLC18A2 Antibody Picoband™ catalog # A02232-1. Tested in ELISA, WB applications. This antibody reacts with Human, Rat.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q05940

### Technical Details

Immunogen	E.coli-derived human VMAT2/SLC18A2 recombinant protein (Position: M1-D514).
Predicted Reactive Species	Human
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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 µg/ml.
Purification	Immunogen affinity purified.

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5 µg/ml, Human, Rat

Direct ELISA, 0.1-0.5 µg/ml, Human

## Anti-VMAT2/SLC18A2 Antibody Picoband™ (A02232-1) Images

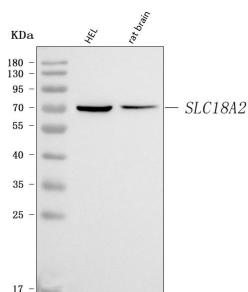


Figure 1. Western blot analysis of VMAT2/SLC18A2 using anti-VMAT2/SLC18A2 antibody (A02232-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HEL whole cell lysates,

Lane 2: rat brain tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-VMAT2/SLC18A2 antigen affinity purified polyclonal antibody (Catalog # A02232-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for VMAT2/SLC18A2 at approximately 75 kDa. The expected band size for VMAT2/SLC18A2 is at 56 kDa.

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