

## Basic Information

Product Name	Anti-SLC18A3 Antibody
Gene Name	SLC18A3
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse
Tested Application	WB
Contents	500 ug/ml antibody with PBS , 0.02% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human SLC18A3 (1-36aa MESAEPAGQARAAATKLSEAVGAALQEPRRQRRLLVL), different from the related mouse and rat sequences by five amino acids.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	57KD
Dilution Ratios	Western blot(WB):1:500-2000

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

The Vesicular acetylcholine transporter (VACHT), also known as SLC18A3, is a neurotransmitter transporter which is responsible for loading acetylcholine (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.

## Selected Validation Data

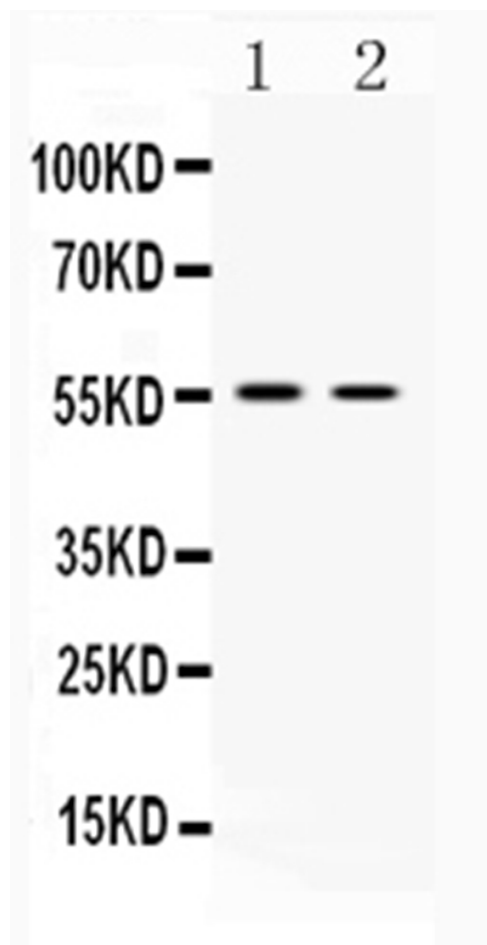


Figure 1. Western blot analysis of SLC18A3 using anti-SLC18A3 antibody (A04891). lane 1: HELA whole cell lysates, lane 2: HEPA whole cell lysates. anti-SLC18A3 antigen affinity purified polyclonal antibody (Catalog # A04891) probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for SLC18A3 at approximately 55KD. The expected band size for SLC18A3 is at 57KD.