

Cat. No:	AB-82380
Conjugate:	Unconjugated
Size:	100 ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Immunogen:	E.coli-derived human VMAT1/SLC18A1 recombinant protein (Position: M1-E510).
Reactivity:	Hu
Applications:	Western blot: 0.25-0.5µg/ml Immunohistochemistry(Paraffin-embedded Section): 0.5-1µg/ml Flow Cytometry: 1-3µg/1×10 ⁶ cells Direct ELISA: 0.1-0.5µg/ml
Purification:	Aff. Pur.
Background:	Chromaffin granule amine transporter is a protein that in humans is encoded by the SLC18A1 gene. This gene is mapped to 8p21.3. The vesicular monoamine transporter acts to accumulate cytosolic monoamines into vesicles, using the proton gradient maintained across the vesicular membrane. Its proper function is essential to the correct activity of the monoaminergic systems that have been implicated in several human neuropsychiatric disorders. The transporter is a site of action of important drugs, including reserpine and tetrabenazine.
Form:	Liquid
Buffer:	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage:	At -20°C for one year. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and

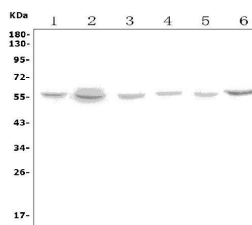


Figure 1. Western blot analysis of SLC18A1 using anti-SLC18A1 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50µg of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human A549 whole cell lysates,

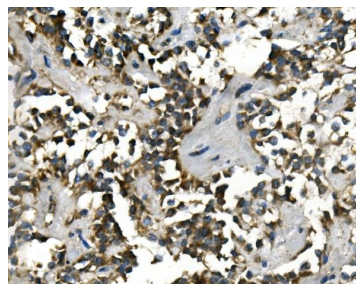


Figure 2. IHC analysis of SLC18A1 using anti-SLC18A1 antibody. SLC18A1 was detected in paraffin-embedded section of human pancreatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-SLC18A1 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was

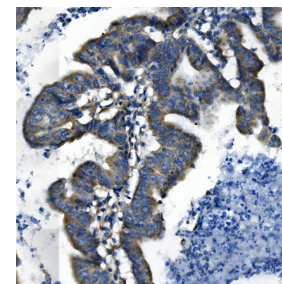


Figure 3. IHC analysis of SLC18A1 using anti-SLC18A1 Antibody. SLC18A1 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml

Lane 3: human U-87MG whole cell lysates,
Lane 4: human A431 whole cell lysates,
Lane 5: human HL-60 cell lysates,
Lane 6: human K562 cell lysates.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-SLC18A1 antigen affinity purified polyclonal antibody at 0.5 mug/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 with Tanon 5200 system. A specific band was detected for SLC18A1 at approximately 56KD. The expected band size for SLC18A1 is at 56KD.

used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

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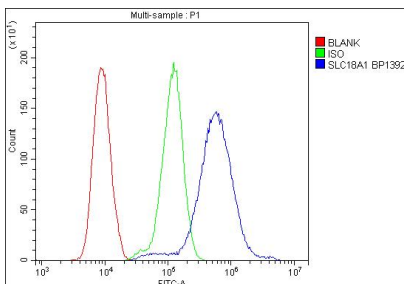


Figure 4. Flow Cytometry analysis of HL-60 cells using anti-SLC18A1 antibody. Overlay histogram showing HL-60 cells stained with (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SLC18A1 Antibody 1μg/1×10⁶ cells for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1μg/1×10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.