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ARG45171
anti-SLC18A1 / VMAT1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SLC18A1 / VMAT1
Tested Reactivity	Hu
Tested Application	FACS, IHC, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	SLC18A1 / VMAT1
Species	Human
Immunogen	Recombinant protein containing to human SLC18A1 / VMAT1 .
Conjugation	Un-conjugated
Alternate Names	SLC18A1; solute carrier family 18 member A1; Chromaffin granule amine transporter; Solute carrier family 18 member 1; Vesicular amine transporter 1; VAT1; SLC18A1; VAT1; VMAT1

Application Instructions

Application table

Application	Dilution
FACS	1 - 3 µg/10^6 cells
IHC	0.5-1 ug/ml
WB	0.25-0.5 µg/ml

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Observed Size	56 kDa

Properties

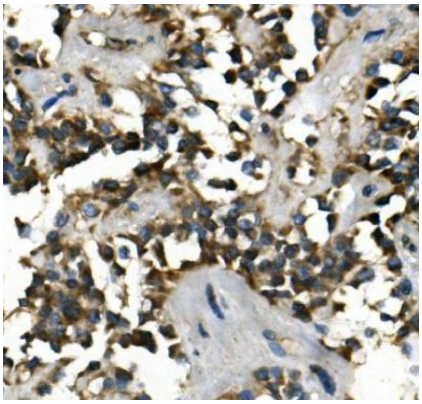
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

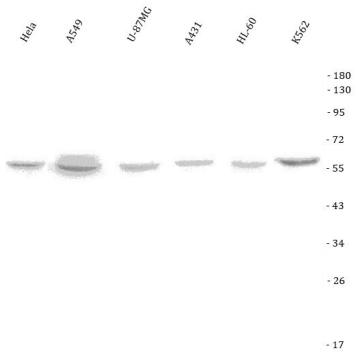
Gene Symbol	SLC18A1
Gene Full Name	solute carrier family 18 member A1
Background	The vesicular monoamine transporter acts to accumulate cytosolic monoamines into vesicles, using the proton gradient maintained across the vesicular membrane. Its proper function is essential to the correct activity of the 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 (Peter et al., 1993 [PubMed 7905859]). See also SLC18A2 (MIM 193001).[supplied by OMIM, Mar 2008]
Function	Electrogenic antiporter that exchanges one cationic monoamine with two intravesicular protons across the membrane of secretory and synaptic vesicles. Uses the electrochemical proton gradient established by the V-type proton-pump ATPase to accumulate high concentrations of monoamines inside the vesicles prior to their release via exocytosis. Transports catecholamines and indolamines with higher affinity for serotonin. [UniProt]
Calculated Mw	56 kDa
PTM	Glycoprotein. [UniProt]
Cellular Localization	Cytoplasmic vesicle membrane; Synaptic vesicle membrane; Endoplasmic reticulum membrane. [UniProt]

Images



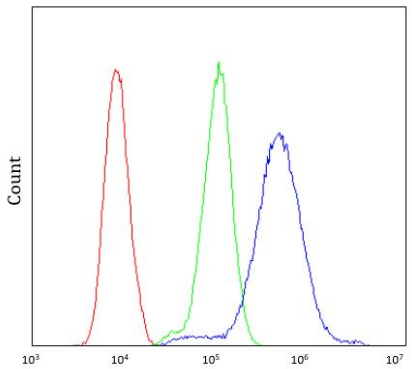
ARG45171 anti-SLC18A1 / VMAT1 antibody IHC-P image

Immunohistochemistry: Human pancreatic cancer stained with ARG45171 anti-SLC18A1 / VMAT1 antibody at 1 µg/ml dilution.



ARG45171 anti-SLC18A1 / VMAT1 antibody WB image

Western blot: Hela, A549, U-87MG, A431, HL-60, and K562 stained with ARG45171 anti-SLC18A1 / VMAT1 antibody at 0.5 µg/ml dilution.



ARG45171 anti-SLC18A1 / VMAT1 antibody FACS image

Flow Cytometry: HL-60 stained with ARG45171 anti-SLC18A1 / VMAT1 antibody at 1 µg/10^6 cells dilution.