

C6orf192 Rabbit pAb

Catalog # AP96192

Product Information

Application	WB
Primary Accession	Q6NT16
Other Accession	Q6NT16
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48869
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C6orf192
Epitope Specificity	1-100/456
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein.
SIMILARITY	Belongs to the major facilitator superfamily.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Making up nearly 6% of the human genome, chromosome 6 contains around 1,200 genes within 170 million base pairs of sequence. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer suggesting the presence of a cancer susceptibility locus. Porphyria cutanea tarda is associated with chromosome 6 through the HFE gene which, when mutated, predisposes an individual to developing this porphyria. Notably, the PARK2 gene, which is associated with Parkinson's disease, and the genes encoding the major histocompatibility complex proteins, which are key molecular components of the immune system and determine predisposition to rheumatic diseases, are also located on chromosome 6. Stickler syndrome, 21-hydroxylase deficiency and maple syrup urine disease are also associated with genes on chromosome 6. A bipolar disorder susceptibility locus has been identified on the q arm of chromosome 6. The C6orf192 gene product has been provisionally designated C6orf192 pending further characterization.

Additional Information

Gene ID	116843
Other Names	C6orf192; VPAT; dj55C23.6; S18B1_HUMAN; SLC18B1; Solute carrier family 18 member B1; Vesicular polyamine transporter (VPAT); chromosome 6 open reading frame 192; solute carrier family 18, subfamily B, member 1
Dilution	WB=1:500-2000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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Protein Information

Name	SLC18B1 {ECO:0000303 PubMed:25355561}
Synonyms	C6orf192
Function	Proton-coupled polyamine antiporter involved in the translocation of polyamines from cytosol into secretory vesicles prior to their release via exocytosis. Uses the electrochemical proton gradient generated by a V-type proton-pumping ATPase to couple the efflux of protons with the uptake of a polyamine molecule (PubMed: 25355561). Facilitates vesicular storage of spermine and spermidine in astrocytes with an impact on glutamatergic neuronal transmission and memory formation (By similarity) (PubMed: 25355561). Upon antigen stimulation, regulates polyamine accumulation and release in mast cell secretory granules, which in turn potentiates mast cell degranulation and histamine secretion (By similarity).
Cellular Location	Cytoplasmic vesicle, secretory vesicle membrane {ECO:0000250 UniProtKB:D3Z5L6}; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250 UniProtKB:D4A9K4}; Multi-pass membrane protein {ECO:0000250 UniProtKB:D4A9K4}. Note=Colocalizes with VAMP3 and VAMP8 in mast cell secretory granules, which are distinct from histamine- and serotonin-containing granules (By similarity). Partly colocalizes with SYP in synaptic vesicles in hippocampal neurons. Colocalizes with SYP and VAMP2 in secretory vesicles of astrocytes (By similarity) {ECO:0000250 UniProtKB:D3Z5L6, ECO:0000250 UniProtKB:D4A9K4}
Tissue Location	Expressed in various tissues including lung, placenta, adrenal gland, liver, testis, and brain

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.