

PSCD1/Cytohesin 1 Rabbit pAb

Catalog # AP97414

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q15438
Other Accession	Q15438
Predicted	Rat, Human, Mouse, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46413
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PSCD1
Epitope Specificity	321-398/398
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 PH domain. Contains 1 SEC7 domain.
SUBUNIT	Interacts with TRIM23 and CYTIP.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Cytohesin 1 is a member of the PSCD family. Members of this family have identical structural organization that consists of an N-terminal coiled-coil motif, a central Sec7 domain, and a C-terminal pleckstrin homology (PH) domain. The coiled-coil motif is involved in homodimerization, the Sec7 domain contains guanine-nucleotide exchange protein (GEP) activity, and the PH domain interacts with phospholipids and is responsible for association of PSCDs with membranes. Members of this family appear to mediate the regulation of protein sorting and membrane trafficking. Cytohesin 1 is highly expressed in natural killer and peripheral T cells, and regulates the adhesiveness of integrins at the plasma membrane of lymphocytes. The encoded protein is 83% homologous to that of CYTH2.

Additional Information

Gene ID	9267
Other Names	B2-1; CYTOHESIN-1; D17S811E; PSCD1; SEC7; CLM1; CTH-1; CYTIP; CYH1_HUMAN; CYTH1; PH, SEC7 and coiled-coil domain-containing protein 1; SEC7 homolog B2-1; CYH1_MOUSE; PH, SEC7 and coiled-coil domain-containing protein 1 (CLM1); SEC7 homolog A (mSec7-1); CYH1_RAT; SEC7 homolog A (rSec7-1); Sec7a; cytohesin 1; pleckstrin homology, Sec7 and coiled-coil domains 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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.
----------------	---

Protein Information

Name	CYTH1 (HGNC:9501)
Synonyms	D17S811E, PSCD1
Function	Promotes guanine-nucleotide exchange on ARF1, ARF5 and ARF6. Promotes the activation of ARF factors through replacement of GDP with GTP. Plays an important role in membrane trafficking, during junctional remodeling and epithelial polarization, through regulation of ARF6 activity.
Cellular Location	Cell membrane; Peripheral membrane protein. Cytoplasm, cytosol {ECO:0000250 UniProtKB:Q9QX11}. Cell junction, tight junction {ECO:0000250 UniProtKB:Q9QX11}. Cell junction, adherens junction {ECO:0000250 UniProtKB:Q9QX11}. Note=Colocalized with TJP1 during epithelial polarization. {ECO:0000250 UniProtKB:Q9QX11}
Tissue Location	Ubiquitous.

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