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[Marker Primary Antibody]

Rabbit Anti-Cytohesin 2/FITC Conjugated antibody

Catalog Number: SL12922R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Cytohesin 2/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human Cytohesin 2
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Chicken,Dog,Pig,Horse,Sheep)
Subcellular Location:	The cell membrane
Background:	background: The ADP-ribosylation factor (Arf) family comprises a group of structurally and functionally conserved 21 kDa proteins, which are members of the Ras superfamily of regulatory GTP-binding proteins. Arf is involved in intracellular protein traffic to and within the Golgi complex. Arf has a number of disparate activities including maintenance of organelle integrity, assembly of coat proteins, as a co-factor for cholera toxin and as an activator of phospholipase D. Like other small GTPases, Arf is found to be active when bound to GTP and inactive when bound to GDP. Arf's activation is dependent upon guanine nucleotide exchange factors (GEFs) which increase the rate of exchange of bound GDP with GTP. All GEFs have a highly conserved Sec7 domain. GEF activity lies in the Sec7 domain and this activity has been shown to be inhibited by the fungal metabolite brefeldin-A (BFA). A small group of GEFs which are insensitive to brefeldin-A (BFA) include cytohesin-1 (B2-1),

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	cytohesin-2 (ARNO), cytohesin-3 (ARNO3), and cytohesin-4. All cytohesins function in the cell periphery and contain a pleckstrin homology (PH) domain. The PH domain has been shown to interact with phosphatidylinositol 3,4,5-triphosphate and is believed to promote membrane targeting of the cytohesins. Recruitment of the cytohesins to the membranes can occur in response to tyrosine kinase receptor activation. This response appears to require the activation of phosphatidylinositol 3-kinase (PI 3-kinase). **Function:** Acts as a guanine-nucleotide exchange factor (GEF). Promotes guanine-nucleotide exchange on ARF1, ARF3 and ARF6. Promotes the activation of ARF factors through replacement of GDP with GTP. The cell membrane form, in association with ARL4 proteins, recruits ARF6 to the plasma membrane. **Subunit:** Heteromer. Composed of GRASP, CYTH2 and at least one GRM1 (By similarity). Interacts with ARRB1. Interacts with ARL4D; the interaction is direct. **Subcellular Location:** Cell membrane. Cytoplasm. Note=Both isoform 1 and isoform 2 are recruited to the cell membrane through its association with ARL4A, ARL4C and ARL4D. Requires also interaction with phosphoinositides for targeting to plasma membrane. **Tissue Specificity:** Ubiquitous. **Similarity:** Contains 1 PH domain. Contains 1 SEC7 domain. **Database links:** UniProtKB/Swiss-Prot: Q99418.2 Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.