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[Marker Primary Antibody]

Rabbit Anti-HERC1 /FITC Conjugated antibody

Catalog Number: SL15459R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-HERC1 /FITC
Immunogen:	KLH conjugated synthetic peptide derived from human HERC1
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:	ICC/IF=1:50-200 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Sheep)
Background:	background: HERC1 is a stimulates guanine nucleotide exchange on ARF1 and Rab proteins. This protein may be involved in membrane transport processes. **Function:** Involved in membrane trafficking via some guanine nucleotide exchange factor (GEF) activity and its ability to bind clathrin. Acts as a GEF for Arf and Rab, by exchanging bound GDP for free GTP. Binds phosphatidylinositol 4,5-bisphosphate, which is required for GEF activity. May also act as a E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. **Subunit:** Interacts with TSC2; interaction is inhibited by TSC1. Interacts with PKM, ARF1 and ARF6. Forms a ternary complex with clathrin heavy chain (CLTC) and HSPA1A. **Subcellular Location:** Membrane; Peripheral membrane protein. Cytoplasm,

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	cytosol. Golgi apparatus. Note=Recruited onto actin-rich surface protrusions. **Tissue Specificity:** Widely expressed. **Similarity:** Contains 1 B30.2/SPRY domain. Contains 1 HECT (E6AP-type E3 ubiquitin-protein ligase) domain. Contains 14 RCC1 repeats. Contains 11 WD repeats. **Database links:** **Entrez Gene:** 538029 Cow **Entrez Gene:** 8925 Human **Entrez Gene:** 235439 Mouse **Entrez Gene:** 100153537 Pig **Entrez Gene:** 315771 Rat Omim: 605109 Human **SwissProt:** Q15751 Human **Unigene:** 210385 Human **Unigene:** 244179 Mouse **Unigene:** 232088 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.