

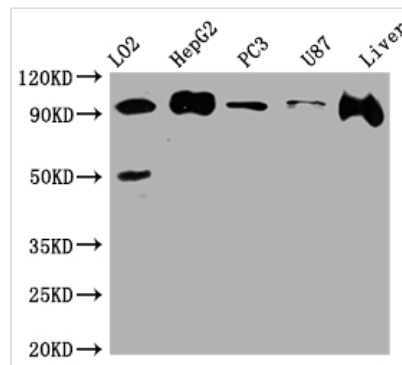


PDCD6IP Antibody

Product Code	CSB-RA568053A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q8WUM4
Immunogen	A synthesized peptide derived from human ALIX
Species Reactivity	Human, Rat
Tested Applications	ELISA, WB, FC; Recommended dilution: WB:1:500-1:5000, FC:1:20-1:200
Relevance	Multifunctional protein involved in endocytosis, multivesicular body biogenesis, membrane repair, cytokinesis, apoptosis and maintenance of tight junction integrity. Class E VPS protein involved in concentration and sorting of cargo proteins of the multivesicular body (MVB) for incorporation into intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome. Binds to the phospholipid lysobisphosphatidic acid (LBPA) which is abundant in MVBs internal membranes. The MVB pathway requires the sequential function of ESCRT-O, -I, -II and -III complexes (PubMed:14739459). The ESCRT machinery also functions in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis (PubMed:17853893, PubMed:17556548). Adapter for a subset of ESCRT-III proteins, such as CHMP4, to function at distinct membranes. Required for completion of cytokinesis (PubMed:17853893, PubMed:17556548, PubMed:18641129). May play a role in the regulation of both apoptosis and cell proliferation. Regulates exosome biogenesis in concert with SDC1/4 and SDCBP (PubMed:22660413). By interacting with F-actin, PARD3 and TJP1 secures the proper assembly and positioning of actomyosin-tight junction complex at the apical sides of adjacent epithelial cells that defines a spatial membrane domain essential for the maintenance of epithelial cell polarity and barrier (By similarity).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cell biology; Microbiology; Signal transduction
Gene Names	PDCD6IP
Accession NO.	7E9



Image



Western Blot

Positive WB detected in: L02 whole cell lysate, HepG2 whole cell lysate, PC-3 whole cell lysate, U-87 whole cell lysate, Rat Liver whole cell lysate

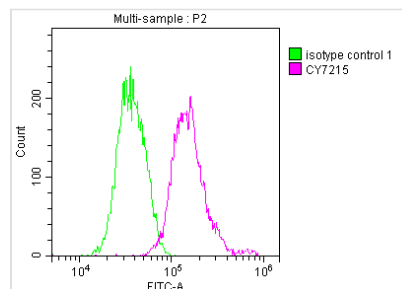
All lanes: ALIX antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 97, 97, 31 kDa

Observed band size: 97 kDa



Overlay histogram showing Jurkat cells stained with CSB-RA568053A0HU (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then incubated in 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody ($1\mu\text{g}/1*10^6\text{cells}$) for 1 h at 4°C . The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30min at 4°C . Control antibody (green line) was Rabbit IgG ($1\mu\text{g}/1*10^6\text{cells}$) used under the same conditions. Acquisition of $>10,000$ events was performed.

Description

PDCD6IP, also called ALIX, is involved in protein transport and trafficking in the cells. PDCD6IP associates with lysobisphosphatidic acid at the late endosome membrane and subunits of the ESCRT machinery to promote membrane abscission events such as intraluminal endosomal vesicle formation, exosome secretion, and enveloped virus budding. intraluminal vesicle formation, exosome biogenesis, and viral budding. PDCD6IP also controls the spatial distribution of late endosomes, likely via interactions with the actin-remodeling protein CTTN (cortactin). It also participates in numerous biological processes including programmed neuronal death, virus egress, cytokinesis, and membrane repair.

The recombinant PDCD6IP antibody was prepared by obtaining the antibody genes, cloning the genes into a plasma vector to construct vector clone, transfecting the vector clone into a mammalian cell line for transient expression, and purifying the antibody by Affinity-chromatography. This recombinant PDCD6IP antibody has been verified to detect the PDCD6IP protein from Human, Rat in the ELISA, WB, FC.