

Anti-PACS1(Phosphofurin acidic cluster sorting protein 1) Polyclonal Antibody

Cat. #: 60B233

Description:

PACS1(Phosphofurin acidic cluster sorting protein 1) is coat protein that is involved in the localization of trans-Golgi network (TGN) membrane proteins that contain acidic cluster sorting motifs. PACS1 controls the endosome-to-Golgi trafficking of furin and mannose-6-phosphate receptor by connecting the acidic-cluster-containing cytoplasmic domain of these molecules with the adapter-protein complex-1 (AP-1) of endosomal clathrin-coated membrane pits. Involved in HIV-1 nef-mediated removal of MHC-I from the cell surface to the TGN.

PACS1 interacts with HIV-1 Nef, AP-1 and AP-3 but not with AP-2. PACS1 forms a ternary complex with furin and AP-1. PACS1 combines with Nef to usurp the ARF6 endocytic pathway by a PI3K-dependent process to remove cell surface MHC-I molecules. PACS1 localizes in the paranuclear region, probably the TGN and belongs to the PACS family.

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of human PACS1(Phosphofurin acidic cluster sorting protein 1)

References

Crump,C.M., et al, EMBO J. 20 (9), 2191-2201 (2001)
Piguet,V., et al, Nat. Cell Biol. 2 (3), 163-167 (2000)
Blagoveshchenskaya,A.D., et al, Cell 111 (6), 853-866 (2002)
Beausoleil,S.A., et al, Proc. Natl. Acad. Sci. U.S.A. 101 (33), 12130-12135 (2004)

Clone Number:

Isotype:

Species: human, mouse, rat

Storage and Stability: at -20oC

Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:

Purified by antigen-specific affinity chromatography.

Applications :

ELISA

Western Blotting (1µg/ml for 2hrs)