

Rabbit anti-Human PACSIN2 Polyclonal Antibody | anti-PACSIN2 antibody

Anti-PACSIN2 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256032	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PACSIN2; Polyclonal Antibody; Anti-PACSIN2 Antibody; Rabbit Polyclonal; PACSIN2 Antibody; Rabbit PAb; Antigen Affinity Purified; protein kinase C and casein kinase substrate in neurons 2; Anti-SDP11 Antibody; anti-PACSIN2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PACSIN2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-PACSIN2 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human PACSIN2 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human PACSIN2 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

PACSIN2 was immunoprecipitated using: Lane A: 0.5 mg NIH/3T3 Whole Cell Lysate 4 uL anti-PACSIN2 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-PACSIN2 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 56 kDa. Observed band size: 60 kDa.



IHC (Immunohistochemistry)

Immunochemical staining of human PACSIN2 in human kidney with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-PACSIN2 rabbit polyclonal antibody at 1:500 dilutionLane A: Jurkat Whole Cell LysateLane B: NIH/3T3 Whole Cell LysateLane C: RAW 264.7 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.Developed using the ECL technique.Performed under reducing conditions.Predicted band size:55 kDaObserved band size:62 kDa(We are unsure as to the identity of these extra bands.

ADDITIONAL INFORMATION

Related Product Information for anti-PACSIN2 antibody	PACSIN2/Syndapin II is one of the BAR domain-containing proteins and is localized at the necks of caveolae. PACSIN2 is thought to function in the scission and stabilization of caveolae, through binding to dynamin-2 and EHD2, respectively. These two functions are considered to be switched by PACSIN2 phosphorylation by protein kinase C (PKC) upon hypotonic stress and shear stress. The PACSIN2 phosphorylation decreases its membrane-binding activity, thereby decreasing its stabilizing effect on caveolae and triggering dynamin-mediated removal of caveolae. The F-BAR protein PACSIN2 is one of the most abundant BAR/F-BAR proteins in platelets and the only one reported to interact with the cytoskeletal and scaffold protein filamin A (FlnA), an essential regulator of platelet formation and function. Protein interaction between NS5A and PACSIN2 was confirmed by pulldown assay and further verified by both coimmunoprecipitation and immunofluorescence assays.
References	Senju Y, et al. (2015) Possible regulation of caveolar endocytosis and flattening by phosphorylation of f-bar domain protein pacsin2/syndapin ii. Bioarchitecture 5 (5-6): 70-77.Senju Y, et al. (2015) Phosphorylation of pacsin2 by protein kinase c triggers the removal of caveolae from the plasma membrane. J Cell Sci 128 (15): 2766-2780.Nguyen LP, et al. (2020) Pacsin2 interacts with nonstructural protein 5a and regulates hepatitis c virus assembly. J Virol 94 (5): e01531-19.Begonja AJ, et al. (2015) Flna binding to pacsin2 f-bar domain regulates membrane tubulation in megakaryocytes and platelets. Blood 126 (1): 80-88.

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