

For Research Use Only

CKAP4 Recombinant antibody

Catalog Number: 84485-4-RR



Basic Information

Catalog Number: 84485-4-RR	GenBank Accession Number: BC082972	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 10970	CloneNo.: 241871B6
Source: Rabbit	UNIPROT ID: Q07065	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:200-1:800
Isotype: IgG	Full Name: cytoskeleton-associated protein 4	
Immunogen Catalog Number: AG10022	Calculated MW: 602 aa, 66 kDa	
	Observed MW: 63 kDa	

Applications

Tested Applications: WB, IF/ICC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human	WB : A431 cells, HeLa cells, HepG2 cells, A549 cells IF/ICC : HepG2 cells,

Background Information

CKAP4 (Cytoskeleton-associated protein 4), also known as CLIMP-63 (cytoskeleton-linking membrane protein 63), is a 63 kDa cytoskeleton-linking membrane protein. CKAP4 is a novel DKK1-binding protein on the cell surface membrane of Madin-Darby canine kidney (MDCK) epithelial cells, and evaluated CKAP4-mediated DKK1 signaling in cancer cell proliferation (PMID: 27322059). In addition, CKAP4 was modified with palmitate at Cys100 by palmitoyl acyltransferase DHHC2 (PMID: 18296695), and palmitoylation was required for CKAP4 localization to PM lipid rafts to promote cancer cell proliferation (PMID: 31744930).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

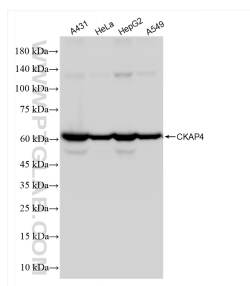
T: 4006900926

E: Proteintech-CN@ptglab.com

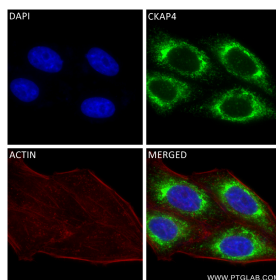
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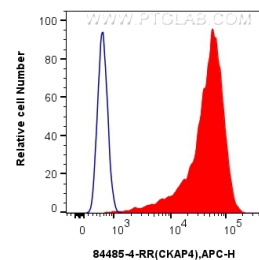
Selected Validation Data



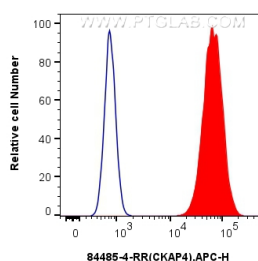
Various lysates were subjected to SDS PAGE followed by western blot with 84485-4-RR (CKAP4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



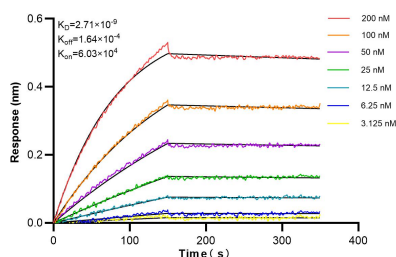
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CKAP4 antibody (84485-4-RR, Clone: 241871B6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g CKAP4 Recombinant antibody (84485-4-RR, Clone:241871B6) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1×10^6 U2OS cells were intracellularly stained with 0.25 μ g CKAP4 Recombinant antibody (84485-4-RR, Clone:241871B6) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 84485-4-RR against Human CKAP4 were performed. The affinity constant is 2.71 nM.