Anti-Cip4 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R011230

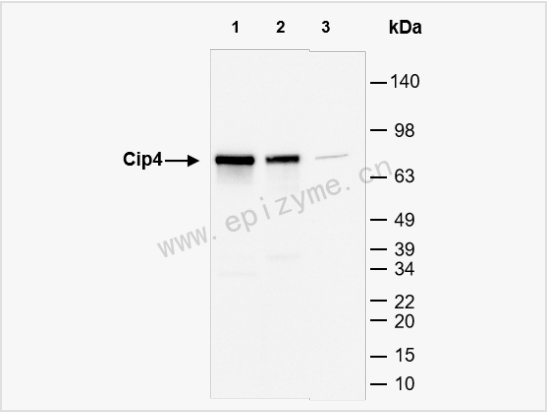
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Mouse, Rat
Dilution	WB 1:1,000~1:3,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	47K66L51
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Cip4
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Cip4 Rabbit mAb [47K66L51] is for research use only and not for use in diagnostic or therapeutic procedures.

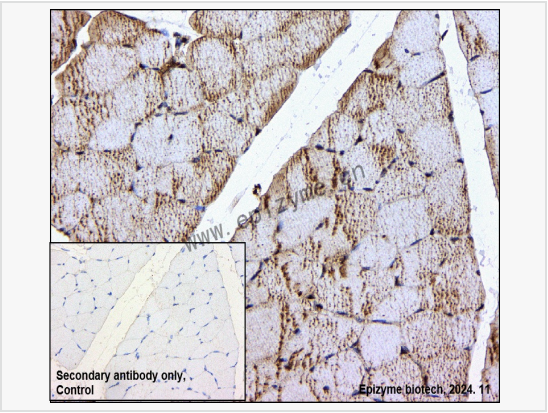
Protein Information

Synonyms	Cdc42 interacting protein 4, Cdc42 interaction protein 4 long isoform, Cdc42-interacting protein 4, CG11341, CG15015 PA, Cip 4, CIP4, CIP4_HUMAN, DCIP4, hSTP, Protein Felic, Salt tolerant protein, Salt tolerator, STOT, STP, Thyroid hormone receptor interactor 10, Thyroid receptor interacting protein 10, Thyroid receptor-interacting protein 10, TR-interacting protein 10, TRIP 10, TRIP-10, trip10, Truncated Cdc42 interaction protein 4.
Calculated MW	Calculated MW: 68 kDa; Observed MW: 80 kDa
Uniprot ID	Q15642
Gene ID	9322
Background	Required for translocation of GLUT4 to the plasma membrane in response to insulin signaling (By similarity). Required to coordinate membrane tubulation with reorganization of the actin cytoskeleton during endocytosis. Binds to lipids such as phosphatidylinositol 4,5-bisphosphate and phosphatidylserine and promotes membrane invagination and the formation of tubules. Also promotes CDC42-induced actin polymerization by recruiting WASL/N-WASP which in turn activates the Arp2/3 complex. Actin polymerization may promote the fission of membrane tubules to form endocytic vesicles. Required for the formation of podosomes, actin-rich adhesion structures specific to monocyte-derived cells. May be required for the lysosomal retention of FASLG/FASL.
Cellular Location	Cytoplasm > perinuclear region and Cytoplasm > cytoskeleton. Cytoplasm > cell cortex. Lysosome. Golgi apparatus. Cell membrane. Cell projection > phagocytic cup. Translocates to the plasma membrane in response to insulin stimulation, and this may require active RHOQ (By similarity). Localizes to cortical regions coincident with F-actin, to lysosomes and to sites of phagocytosis in macrophages. Also localizes to the Golgi, and this requires AKAP9.

Validation Images



Western Blot - Anti-Cip4 Rabbit mAb [47K66L51]
All lanes: R011230 at 1:3,000 dilution
Lane 1: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 2: Mouse muscle whole tissue lysates
Lane 3: Rat kidney whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 68 kDa
Observed band size: 80 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Cip4 Rabbit mAb [47K66L51]
Sample: Paraformaldehyde-fixed, paraffin embedded rat muscle tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011230 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.