

Rabbit CKIP-1 Polyclonal Antibody | anti-PLEKHO1 antibody

CKIP-1 Antibody (N-term)

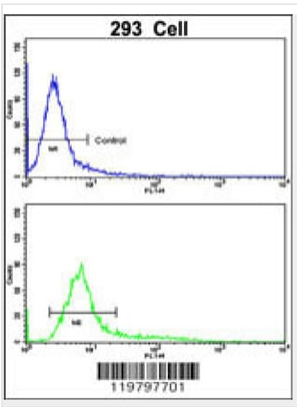
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286788	Rabbit	Human (Predicted Reactivity: Bovine)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

CKIP-1; Polyclonal Antibody; CKIP-1 Antibody (N-term); Pleckstrin homology domain-containing family O member 1; PH domain-containing family O member 1; C-Jun-binding protein; JBP; Casein kinase 2-interacting protein 1; CK2-interacting protein 1; Osteoclast maturation-associated gene 120 protein; PLEKHO1; CKIP1; OC120; anti-PLEKHO1 antibody

PRODUCT SPECIFICATIONS

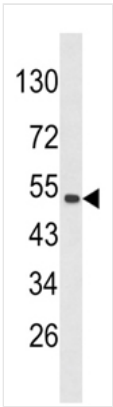
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CKIP-1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 49-77 amino acids from the N-terminal region of human CKIP-1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	49-77
Sequence Length	375
Applicable Applications for anti- PLEKHO1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	Plays a role in the regulation of the actin cytoskeleton through its interactions with actin capping protein (CP). May function to target CK2 to the plasma membrane thereby serving as an adapter to facilitate the phosphorylation of CP by protein kinase 2 (CK2). Appears to target ATM to the plasma membrane. Appears to also inhibit tumor cell growth by inhibiting AKT- mediated cell-survival. Also implicated in PI3K-regulated muscle differentiation, the regulation of AP-1 activity (plasma membrane bound AP-1 regulator that translocates to the nucleus) and the promotion of apoptosis induced by tumor necrosis factor TNF. When bound to PKB, it inhibits it probably by decreasing PKB level of phosphorylation.
Cellular Location	Cell membrane; Peripheral membrane protein. Nucleus. Cytoplasm. Note=Predominantly localized to the plasma membrane through the binding to phosphatidylinositol 3- phosphate (PubMed:14729969). In C2C12 cells, with the absence of growth factor, it is found in the nucleus (PubMed:14729969). It rapidly translocates to the plasma membrane after insulin stimulation (PubMed:14729969). In response to TNF, it translocates from the plasma membrane to the cytoplasm and then to the nucleus accompanied by cleavage by caspase-3 (PubMed:15706351). However, the subcellular location is highly dependent of the cell type, and this explains why it is found exclusively at the plasma membrane, in some type of cells (Probable).{ECO:0000269 PubMed:14729969,ECO:0000269 PubMed:15706351,ECO:0000305}
Tissue Location	Abundantly expressed in skeletal muscle and heart, moderately in kidney, liver, brain and placenta and sparingly in the pancreas and lung. Easily detectable in cell lines such as MOLT-4, HEK293 and Jurkat
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of 293 cells using CKIP-1 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human skeletal muscle reacted with CKIP-1 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of CKIP-1 Antibody (N-term) in 293 cell line lysates (35ug/lane). CKIP-1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti- PLEKHO1 antibody	CKIP-1 plays a role in the regulation of the actin cytoskeleton through its interactions with actin capping protein (CP). This protein may function to target CK2 to the plasma membrane thereby serving as an adapter to facilitate the phosphorylation of CP by protein kinase 2 (CK2). It appears to target ATM to the plasma membrane and appears to also inhibit tumor cell growth by inhibiting AKT-mediated cell-survival. Also implicated in PI3K-regulated muscle differentiation, the regulation of AP-1 activity (plasma membrane bound AP-1 regulator that translocates to the nucleus) and the promotion of apoptosis induced by tumor necrosis factor TNF. When bound to PKB, it inhibits it probably by decreasing PKB level of phosphorylation.
Product Categories/Family for anti- PLEKHO1 antibody	Signal Transduction
References	Barrios-Rodiles,M., et.al., Science 307 (5715), 1621-1625 (2005)

NCBI AND UNIPROT INFORMATION

NCBI GI #	20149626
NCBI GeneID	51177
NCBI Accession #	NP_057358.2
NCBI GenBank Nucleotide #	NM_016274.5

UniProt Accession #	Q53GL0 ; Q336K5 ; Q8IZ51 ; Q9NRV3 ; Q9UL48
Molecular Weight	46237
NCBI Official Full Name	pleckstrin homology domain-containing family O member 1 isoform a
NCBI Official Synonym Full Names	pleckstrin homology domain containing, family O member 1
NCBI Official Symbol	PLEKHO1
NCBI Official Synonym Symbols	JBP; CKIP1; OC120; CKIP-1
NCBI Protein Information	pleckstrin homology domain-containing family O member 1
UniProt Protein Name	Pleckstrin homology domain-containing family O member 1
UniProt Gene Name	PLEKHO1
UniProt Synonym Gene Names	CKIP1; OC120; PH domain-containing family O member 1; JBP; CK2-interacting protein 1; CKIP-1
UniProt Entry Name	PKHO1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ckip-1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/286788>