10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-PALLD Antibody

Catalog # AP53784

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q8WX93
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	150564

Additional Information

Gene ID	23022
Other Names	KIAA0992; Palladin; SIHC002; Sarcoma antigen NY-SAR-77
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PALLD. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IHC~~1/50 - 1/200 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

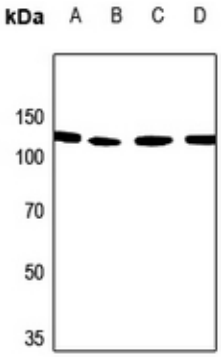
Name	PALLD
Synonyms	KIAA0992
Function	Cytoskeletal protein required for organization of normal actin cytoskeleton. Roles in establishing cell morphology, motility, cell adhesion and cell-extracellular matrix interactions in a variety of cell types. May function as a scaffolding molecule with the potential to influence both actin polymerization and the assembly of existing actin filaments into higher-order arrays. Binds to proteins that bind to either monomeric or filamentous actin. Localizes at sites where active actin remodeling takes place, such as lamellipodia and membrane ruffles. Different isoforms may have functional differences. Involved in the control of morphological and cytoskeletal changes associated with dendritic cell maturation. Involved in targeting ACTN to specific subcellular foci.
Cellular Location	Cytoplasm, cytoskeleton. Cell junction, focal adhesion. Cytoplasm, myofibril, sarcomere, Z line. Cell projection, ruffle. Cell projection, podosome

{ECO:0000250|UniProtKB:P0C5E3}. Cell projection, lamellipodium. Cell projection, axon {ECO:0000250|UniProtKB:P0C5E3}. Cell projection, growth cone {ECO:0000250|UniProtKB:P0C5E3}. Note=Localizes to stress fibers and Z lines (PubMed:11598191, PubMed:16125169, PubMed:17322171, PubMed:17537434). Preferentially expressed in the excitatory presynaptic terminals (By similarity). {ECO:0000250|UniProtKB:P0C5E3, ECO:0000269|PubMed:11598191, ECO:0000269|PubMed:16125169, ECO:0000269|PubMed:17322171, ECO:0000269|PubMed:17537434}

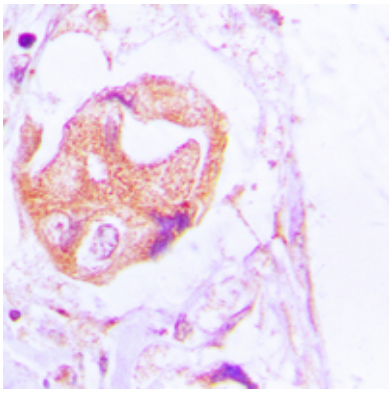
Tissue Location

Detected in both muscle and non-muscle tissues. High expression in prostate, ovary, colon, and kidney. Not detected in spleen, skeletal muscle, lung and peripheral blood lymphocytes (at protein level). Protein is overexpressed in FA6, HPAF, IMIM-PC2, SUIT-2 and PancTu-II sporadic pancreatic cancer cell lines

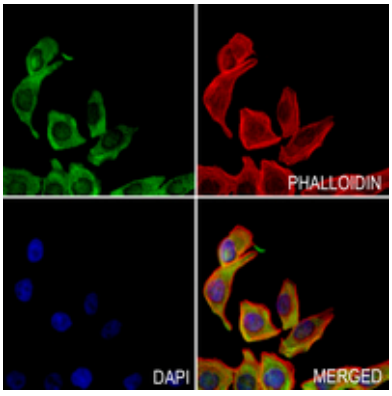
Images



Western blot analysis of PALLD expression in Hela (A), A375 (B), mouse muscle (C), mouse kidney (D) whole cell lysates. (Predicted band size: 150 kD; Observed band size: 122 kD)

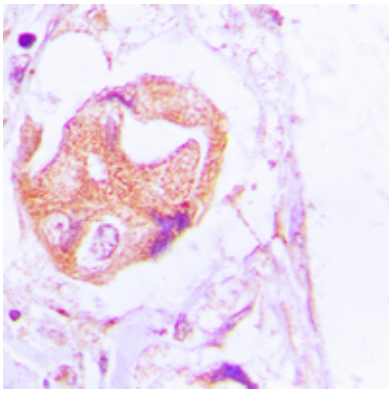


Immunohistochemical analysis of PALLD staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of PALLD staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Immunohistochemical analysis of PALLD staining in human lung cancer formalin fixed paraffin embedded



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