

Rabbit anti-Human, Mouse APPL1 Polyclonal Antibody | anti-APPL1 antibody

APPL1 Antibody

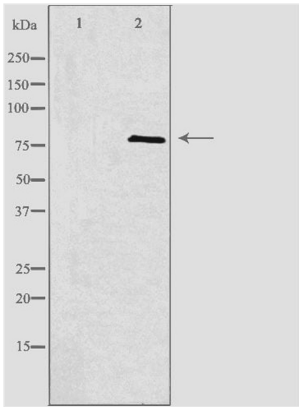
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324655	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

APPL1; Polyclonal Antibody; APPL1 Antibody; Adapter protein containing PH domain; Adaptor Protein Containing pH Domain; Adaptor protein containing pH domain PTB domain and leucine zipper motif 1; Adaptor protein containing pH domain PTB domain and leucine zipper motif; AKT2 INTERACTOR; APPL 1; Appl1; DCC interacting protein 13 alpha; DCC-interacting protein 13-alpha; DIP 13 alpha; DIP13 alpha; Dip13-alpha; DIP13alpha; DP13A_HUMAN; KIAA1428; PTB domain and leucine zipper motif 1; PTB Domain and Leucine Zipper Motif; Signaling adaptor protein DIP13alpha; anti-APPL1 antibody

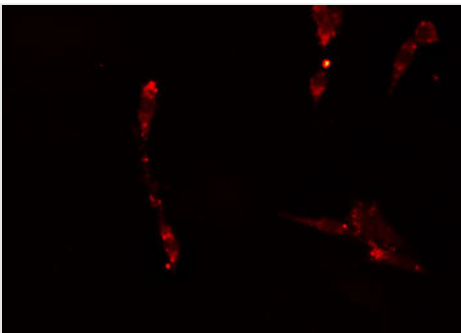
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	APPL1 antibody detects endogenous levels of total APPL1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	709
Applicable Applications for anti-APPL1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Early Endosome Membrane. Nucleus. Early endosomal membrane-bound and nuclear. Translocated into the nucleus upon release from endosomal membranes following internalization of EGF.
Tissue Specificity	High levels in heart, ovary, pancreas and skeletal muscle.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (82%), Xenopus (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



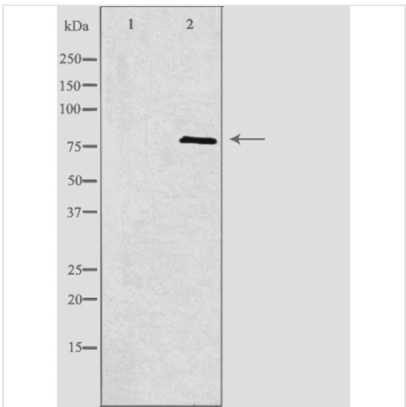
WB (Western Blot)

Western blot analysis of extracts from A549 cells, using APPL1 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA324655 staining A549 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from A549 cells, using APPL1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-APPL1 antibody

Function: Adapter protein that interacts with proteins involved in different cellular signaling pathways. Required for the regulation of cell proliferation in response to extracellular signals from an early endosomal compartment. Links Rab5 to nuclear signal transduction. Involved in the regulation of the insulin receptor signaling pathway.

Subunit Structure: Binds RAB5A/Rab5 through an N-terminal domain. This interaction is essential for its recruitment to endosomal membranes as well as its role in cell proliferation. Binds DCC and the catalytic domain of the inactive form of AKT2 through its PID domain. Binds PIK3CA and subunits of the NuRD/MeCP1 complex. Interacts with OCRL and INPP5B. Interacts with NTRK2 (By similarity).

Post-translational Modifications: Phosphorylation at Ser-410 by PKA severely impairs binding to OCRL.

Similarity: Overexpression of an N-terminal domain (residues 1-319) or a C-terminal region (residues 273-709) has a proapoptotic effect. The F&H motif, an approximately 12-13 amino-acid sequence centered around Phe and His residues, is essential for binding to OCRL and INPP5B.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6912242
NCBI GeneID	26060
NCBI Accession #	NP_036228.1
NCBI GenBank Nucleotide #	NM_012096.2
UniProt Accession #	Q9UKG1; Q9P2B9

Molecular Weight	Observed: 80 kD Predicted: 80 kDa
NCBI Official Full Name	DCC-interacting protein 13-alpha
NCBI Official Synonym Full Names	adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 1
NCBI Official Symbol	APPL1
NCBI Official Synonym Symbols	APPL; MODY14; DIP13alpha
NCBI Protein Information	DCC-interacting protein 13-alpha
UniProt Protein Name	DCC-interacting protein 13-alpha
UniProt Gene Name	APPL1
UniProt Synonym Gene Names	; Dip13-alpha

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://stage.aaabiotech.com/polyclonal/appl1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324655>