



Rabbit Anti-APPL1 antibody

SL1632R

Product Name:	APPL1
Chinese Name:	衔接因子蛋白含pH域蛋白1抗体
Alias:	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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	80kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human APPL1:101-200/709
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene has been shown to be involved in the regulation of cell

proliferation, and in the crosstalk between the adiponectin signalling and insulin signalling pathways. The encoded protein binds many other proteins, including RAB5A, DCC, AKT2, PIK3CA, adiponectin receptors, and proteins of the NuRD/MeCP1 complex. This protein is found associated with endosomal membranes, but can be released by EGF and translocated to the nucleus. [provided by RefSeq, Jul 2008]

Function:

Required for the regulation of cell proliferation in response to extracellular signals from an early endosomal compartment. Links Rab5 to nuclear signal transduction.

Subunit:

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.

Subcellular Location:

Early endosome membrane; Peripheral membrane protein. Nucleus. Note=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.

Post-translational modifications:

Phosphorylated upon DNA damage, probably by ATM or ATR.
Phosphorylation at Ser-410 by PKA severely impairs binding to OCRL.

Similarity:

Contains 1 PH domain.
Contains 1 PID domain.

SWISS:

Q9UKG1

Gene ID:

26060

Database links:

[Entrez Gene: 26060](#)Human

[Entrez Gene: 72993](#)Mouse

[Entrez Gene: 290537](#)Rat

[Omim: 604299](#)Human

[SwissProt: Q9UKG1](#)Human

[SwissProt: Q8K3H0](#)Mouse

[Unigene: 476415](#)Human

[Unigene: 202322](#)Mouse

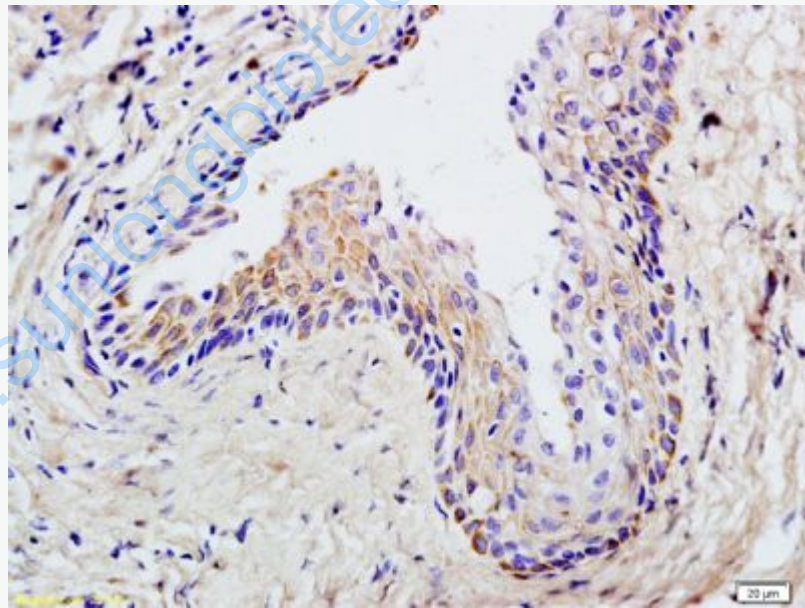
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

衔接因子蛋白含pH域磷酸酪氨酸结合域和亮氨酸拉链基元1抗体.

APPL1可调节脂联素和胰岛素信号, 是The cell membrane与The nucleus之间重要的信息传递蛋白,同时也是细胞增殖所必需的蛋白, 它有调节脂联素在脂肪酸氧化和葡萄糖吸收中的作用, APPL1通过激酶通道来调节脂联素的胰岛素敏感效应。

Picture:



Tissue/cell: Rat ovary tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-APPL1 Polyclonal Antibody, Unconjugated(SL1632R) 1:500,

	overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining
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