

Anti-APPL1 Antibody
Rabbit polyclonal antibody to APPL1
Catalog # AP60949**Specification**

Anti-APPL1 Antibody - Product Information

Application	WB
Primary Accession	Q9UKG1
Other Accession	Q8K3H0
Reactivity	Human, Mouse, Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79663

Anti-APPL1 Antibody - Additional Information**Gene ID** 26060**Other Names**

APPL; DIP13A; KIAA1428; DCC-interacting protein 13-alpha; Dip13-alpha; Adapter protein containing PH domain PTB domain and leucine zipper motif 1

Target/Specificity

Recognizes endogenous levels of APPL1 protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-APPL1 Antibody - Protein Information**Name** APPL1 ([HGNC:24035](#))**Function**

Multifunctional adapter protein that binds to various membrane receptors, nuclear factors and signaling proteins to regulate many processes, such as cell proliferation, immune response, endosomal trafficking and cell metabolism (PubMed: [26583432](http://www.uniprot.org/citations/26583432), PubMed: [15016378](http://www.uniprot.org/citations/15016378), PubMed: [26073777](http://www.uniprot.org/citations/26073777), PubMed: [19661063](http://www.uniprot.org/citations/19661063), PubMed: [10490823](http://www.uniprot.org/citations/10490823)). Regulates

signaling pathway leading to cell proliferation through interaction with RAB5A and subunits of the NuRD/MeCP1 complex (PubMed:15016378). Functions as a positive regulator of innate immune response via activation of AKT1 signaling pathway by forming a complex with APPL1 and PIK3R1 (By similarity). Inhibits Fc-gamma receptor-mediated phagocytosis through PI3K/Akt signaling in macrophages (By similarity). Regulates TLR4 signaling in activated macrophages (By similarity). Involved in trafficking of the TGFBR1 from the endosomes to the nucleus via microtubules in a TRAF6-dependent manner (PubMed:26583432). Plays a role in cell metabolism by regulating adiponectin and insulin signaling pathways (PubMed:26073777, PubMed:19661063, PubMed:24879834). Required for fibroblast migration through HGF cell signaling (By similarity). Positive regulator of beta-catenin/TCF-dependent transcription through direct interaction with RUVBL2/reptin resulting in the relief of RUVBL2-mediated repression of beta-catenin/TCF target genes by modulating the interactions within the beta-catenin-reptin-HDAC complex (PubMed:19433865).

Cellular Location

Early endosome membrane; Peripheral membrane protein. Nucleus. Cytoplasm. Endosome. Cell projection, ruffle {ECO:0000250|UniProtKB:Q8K3H0}. Cytoplasmic vesicle, phagosome {ECO:0000250|UniProtKB:Q8K3H0}. Note=Early endosomal membrane-bound and nuclear. Translocated into the nucleus upon release from endosomal membranes following internalization of EGF

Tissue Location

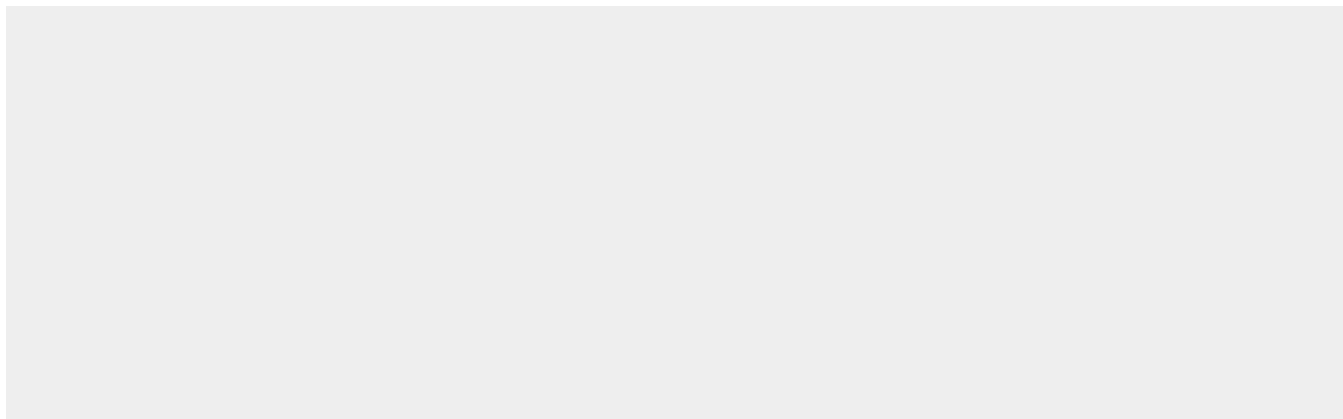
High levels in heart, ovary, pancreas and skeletal muscle.

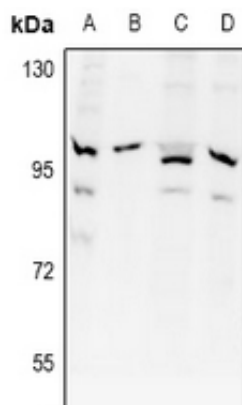
Anti-APPL1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-APPL1 Antibody - Images





Western blot analysis of APPL1 expression in SP20 (A), A2780 (B), SKOV3 (C), PC12 (D) whole cell lysates.

Anti-APPL1 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human APPL1. The exact sequence is proprietary.