

APPL1 / APPL Antibody (aa111-160)
Rabbit Polyclonal Antibody
Catalog # ALS16347**Specification**

APPL1 / APPL Antibody (aa111-160) - Product Information

Application	WB
Primary Accession	O9UKG1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80kDa KDa

APPL1 / APPL Antibody (aa111-160) - Additional Information**Gene ID** 26060**Other Names**

DCC-interacting protein 13-alpha, Dip13-alpha, Adapter protein containing PH domain, PTB domain and leucine zipper motif 1, APPL1

Target/Specificity

APPL1 Antibodyantibody detects endogenous levels of APPL1.

Reconstitution & Storage

Store at -20°C.

Precautions

APPL1 / APPL Antibody (aa111-160) is for research use only and not for use in diagnostic or therapeutic procedures.

APPL1 / APPL Antibody (aa111-160) - 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, PubMed:15016378, PubMed:26073777, PubMed:19661063, PubMed: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.

Volume

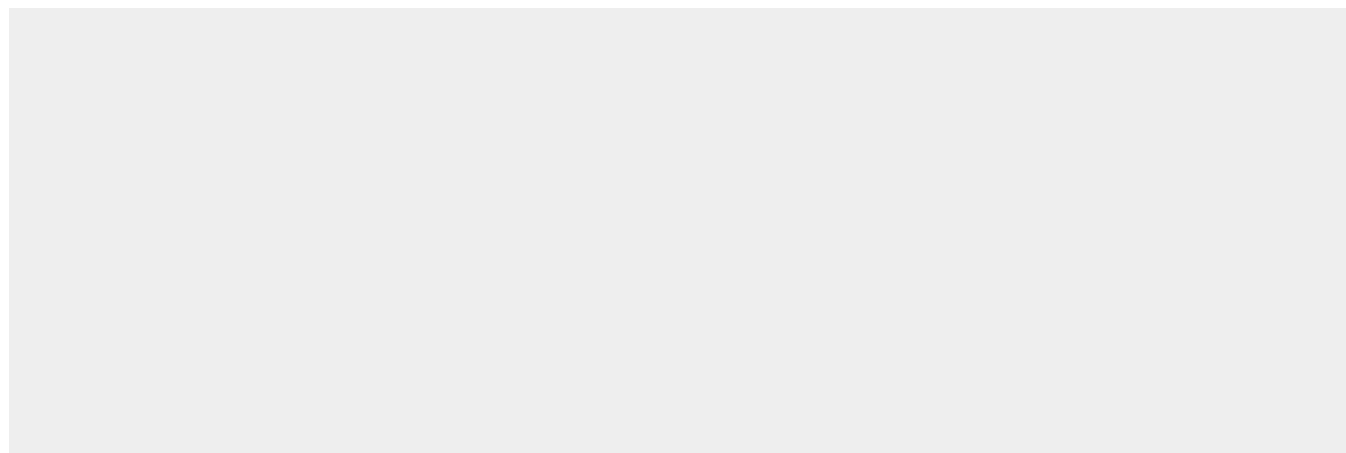
50 µl

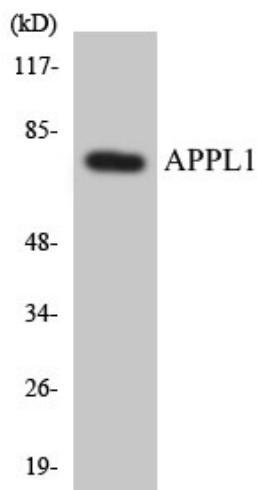
APPL1 / APPL Antibody (aa111-160) - Protocols

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](#)

APPL1 / APPL Antibody (aa111-160) - Images





Western blot of the lysates from K562 cells using APPL1 antibody.

APPL1 / APPL Antibody (aa111-160) - Background

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

APPL1 / APPL Antibody (aa111-160) - References

- Mitsuuchi Y.,et al.Oncogene 18:4891-4898(1999).
- Liu J.,et al.J. Biol. Chem. 277:26281-26285(2002).
- Nagase T.,et al.DNA Res. 7:65-73(2000).
- Nakajima D.,et al.DNA Res. 9:99-106(2002).
- Miaczynska M.,et al.Cell 116:445-456(2004).