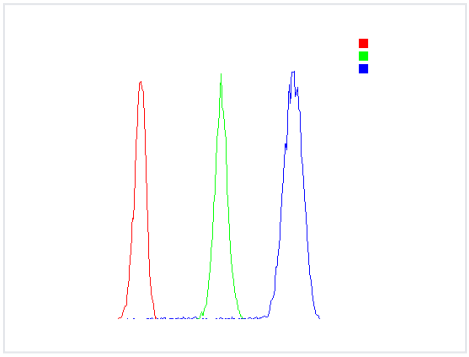
APPL/APPL1 (APPL1) Antibody – Rabbit Polyclonal

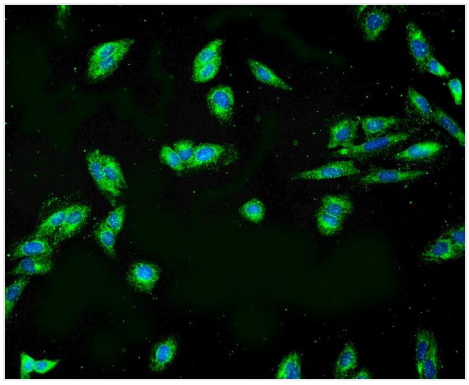
PRODUCT OVERVIEW

Product Name	APPL/APPL1, Polyclonal Antibody
Full Product Name	Anti-APPL/APPL1 Antibody
Product Gene Name	anti-APPL1 antibody
Product Synonym Names	DCC-interacting protein 13-alpha; Dip13-alpha; Adapter protein containing PH domain, PTB domain and leucine zipper motif 1; APPL1; APPL, DIP13A, KIAA1428
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Purity/Purification	Immunogen affinity purified.
Specificity	No cross reactivity with other proteins.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen store at -20 degree C for a longer time. Avoid repeated freezing and thawing.
OMIM	604299
3D Structure	ModBase 3D Structure for Q9UKG1
Immunogen	E Coli-derived human APPL/APPL1 recombinant protein (Position: K91-R668).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-APPL1 antibody	Western Blot (WB), Immunohistochemistry (IHC) Paraffin, Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS), Direct ELISA (EIA)
Application Notes for anti-APPL1 antibody	WB: 0.25-0.5ug/ml (Human, Mouse, Rat) IHC-P (Embedded Section): 0.5-1ug/ml (Human) ICC: 2ug/ml (Human) IF: 2ug/ml (Human) FC/FACS: 1-3ug/1x106 cells (Human) Direct ELISA: 0.1-0.5ug/ml (Human) Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections.
Related Product Information for anti-APPL1 antibody	Description: Rabbit IgG polyclonal antibody for APPL/APPL1 detection. Tested with WB, IHC-P, ICC/IF, FCM, Direct ELISA in Human; Mouse; Rat. Background: DCC-interacting protein 13-alpha(APPL1) is a protein that in humans is encoded by the APPL1 gene. The APPL1 gene is mapped to 3q21.1-p13.3. It is said to contain 709 amino acids and share 54% amino acid identity with APPL2. APPL is highly expressed in skeletal muscle, heart, ovary, and pancreas, tissues in which AKT2 mRNA is abundant. It has been regarded as an adaptor that may tether inactive AKT2 to the PI3K in the cytoplasm and thereby may expedite recruitment of AKT2 and PI3K to the cell membrane upon mitogenic stimulation.

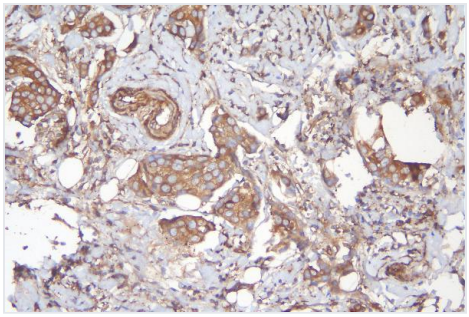
Product References and Citations for anti-APPL1 antibody	1. Mitsuuchi Y, Johnson SW, Sonoda G, Tanno S, Golemis EA, Testa JR (Oct 1999). "Identification of a chromosome 3p14.3-21.1 gene, APPL, encoding an adaptor molecule that interacts with the oncoprotein-serine/threonine kinase AKT2". Oncogene 18 (35): 4891-8. doi:10.1038/sj.onc.1203080. PMID 10490823. 2. Nechamen CA, Thomas RM, Dias JA (Nov 2006). "APPL1, APPL2, Akt2 and FOXO1a interact with FSHR in a potential signaling complex". Mol Cell Endocrinol 260-262: 93-9. doi:10.1016/j.mce.2006.08.014.PMC 1782224. PMID 17030088. 3. Entrez Gene: APPL1 adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1".
Other Notes	Small volumes of anti-APPL1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for APPL1 purchase	MBS1753036 is an antibody targeting APPL1. Also known as Anti-APPL/APPL1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



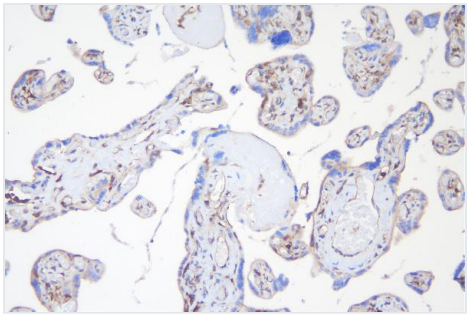
Flow Cytometry (FC/FACS) of anti-APPL1 antibody



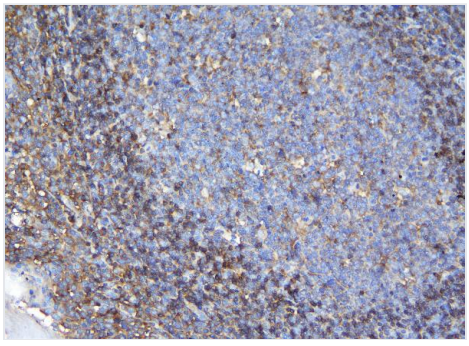
Immunofluorescence (IF) of anti-APPL1 antibody



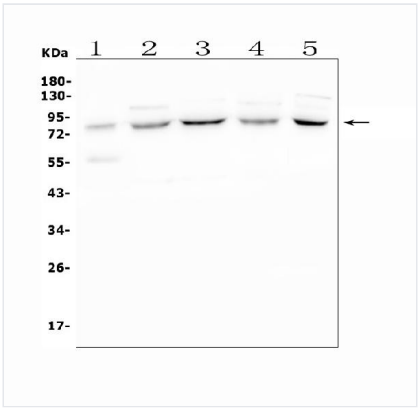
Immunohistochemistry (IHC) of anti-APPL1 antibody



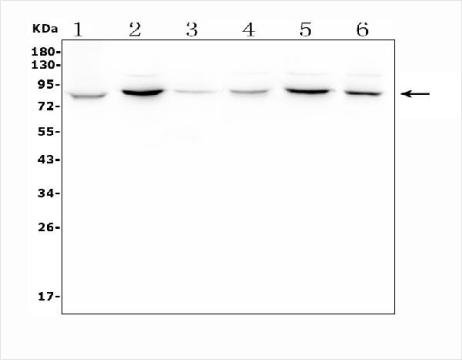
Immunohistochemistry (IHC) of anti-APPL1 antibody



Immunohistochemistry (IHC) of anti-APPL1 antibody



Western Blot (WB) of anti-APPL1 antibody



Western Blot (WB) of anti-APPL1 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APPL1. It may not necessarily be applicable to this product.

NCBI GI #	6912242
NCBI GeneID	26060
NCBI Accession #	NP_036228.1
UniProt Primary Accession #	Q9UKG1
UniProt Related Accession #	Q9UKG1
GenBank Nucleotide #	NP_036228.1
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
UniProt Protein Name	DCC-interacting protein 13-alpha
UniProt Synonym Protein Names	Adapter protein containing PH domain, PTB domain and leucine zipper motif 1
Protein Family	DCC-interacting protein
UniProt Gene Name	APPL1
UniProt Synonym Gene Names	APPL; DIP13A; KIAA1428; Dip13-alpha
UniProt Entry Name	DP13A_HUMAN
NCBI Protein Information	DCC-interacting protein 13-alpha
NCBI Summary for APPL1	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]

UniProt Comments for APPL1	APPL: an effector protein of the small GTPase Rab5, a key regulator of endocytosis. Required for the regulation of cell proliferation in response to extracellular signals from an early endosomal compartment. Links Rab5 to nuclear signal transduction. Contains a PH domain and an N-terminal PID domain. Its interaction with RAB5A/Rab5 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. Phosphorylated upon DNA damage. Protein type: Adaptor/scaffold; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 3p14.3 Cellular Component: early endosome membrane; cytoplasm; endosome membrane; vesicle membrane; NuRD complex; nucleus; cytosol Molecular Function: protein kinase B binding; identical protein binding; protein binding Biological Process: cell proliferation; positive regulation of apoptosis; insulin receptor signaling pathway; regulation of glucose import; cell cycle; signal transduction Disease: Maturity-onset Diabetes Of The Young, Type 14
Research Articles on APPL1	**1.** we demonstrate a novel role for the interaction between APPL1 and Rab5 in governing crosstalk between signaling and trafficking pathways on endosomes to affect cancer cell migration
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/appl-appl1/1753036