

APPL1 Polyclonal Antibody

Catalog number: 12639-1-AP

Size: 20 µg/150 µl

Source: Rabbit

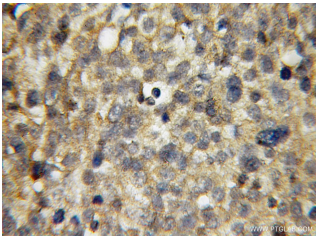
Isotype: IgG

Synonyms:

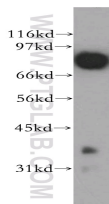
APPL1; APPL, APPL1, Dip13

alpha, DIP13A, DIP13alpha,

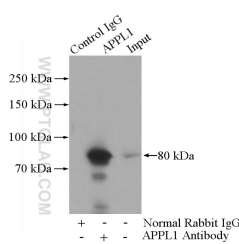
KIAA1428



Immunohistochemical of paraffin-embedded human ovary tumor using 12639-1-AP (APPL1 antibody) at dilution of 1:50 (under 10x lens)



human brain tissue were subjected to SDS PAGE followed by western blot with 12639-1-AP (APPL1 antibody) at dilution of 1:500



IP Result of anti-APPL1 (IP:12639-1-AP, 4µg; Detection:12639-1-AP 1:500) with mouse brain tissue lysate 4000µg.

Background

Adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1 (APPL1), a binding partner of Akt2 and an important regulator of insulin signaling, plays a key role in the regulation of insulin secretion [PMID:22615370]. APPL1 interacts with adiponectin receptors and mediates the insulin-sensitizing effects of adiponectin in muscle and endothelial cells. It also participates in nuclear signaling and transcriptional regulation, mostly by modulating the activity of various nuclear factors [PMID:22685329]. Apart from its role in endocytosis and endosomal transport, APPL1 was reported to undergo nucleocytoplasmic shuttling and participate in transcriptional regulation, e.g. by interactions with histone deacetylases (HDACs) [PMID:19686092].

Applications

Tested applications:	ELISA, WB, IHC, IP
Cited applications:	IF, IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human
Calculated APPL1 MW:	709aa, 80 kDa
Observed APPL1 MW:	80kd
Positive WB detected in	Human brain tissue, mouse ovary tissue
Positive IP detected in	Mouse brain tissue
Positive IHC detected in	Human ovary tumor tissue
Recommended dilution:	WB: 1:500-1:5000
	IP: 1:200-1:2000
	IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3334
GenBank accession number:	BC028599
Gene ID (NCBI):	26060
Full name:	Adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.