

BIG2 Polyclonal Antibody
Catalog # AP68672**Specification****BIG2 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	Q9Y6D5
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

BIG2 Polyclonal Antibody - Additional Information**Gene ID** 10564**Other Names**

ARFGEF2; ARFGEP2; BIG2; Brefeldin A-inhibited guanine nucleotide-exchange protein 2; Brefeldin A-inhibited GEP 2; ADP-ribosylation factor guanine nucleotide-exchange factor 2

DilutionWB~~Western Blot: 1/500 - 1/2000.
Immunohistochemistry: 1/100 - 1/300.
Immunofluorescence: 1/200 - 1/1000.
ELISA: 1/20000. Not yet tested in other applications.**Format**

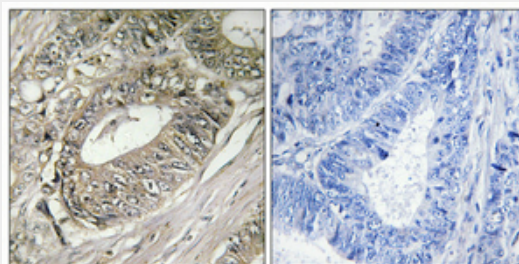
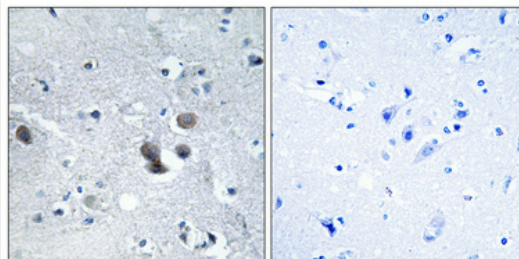
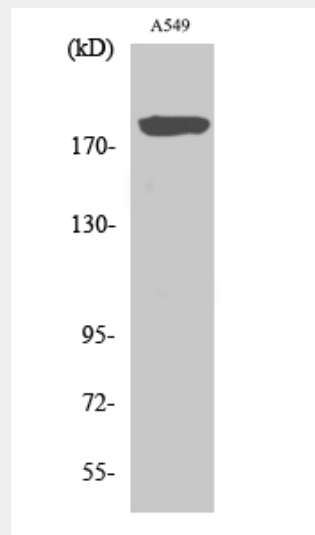
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Storage Conditions

-20°C

BIG2 Polyclonal Antibody - Protein Information**Name** ARFGEF2**Synonyms** ARFGEP2, BIG2**Function**

Promotes guanine-nucleotide exchange on ARF1 and ARF3 and to a lower extent on ARF5 and ARF6. Promotes the activation of ARF1/ARF5/ARF6 through replacement of GDP with GTP. Involved in the regulation of



Golgi vesicular transport. Required for the integrity of the endosomal compartment. Involved in trafficking from the trans-Golgi network (TGN) to endosomes and is required for membrane association of the AP-1 complex and GGA1. Seems to be involved in recycling of the transferrin receptor from recycling endosomes to the plasma membrane. Probably is involved in the exit of GABA(A) receptors from the endoplasmic reticulum. Involved in constitutive release of tumor necrosis factor receptor 1 via exosome-like vesicles; the function seems to involve PKA and specifically PRKAR2B. Proposed to act as A kinase-anchoring protein (AKAP) and may mediate crosstalk between Arf and PKA pathways.

Cellular Location

Cytoplasm. Membrane. Golgi apparatus. Cytoplasm, perinuclear region. Golgi apparatus, trans-Golgi network Endosome. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cell projection, dendrite Cytoplasmic vesicle. Cell junction, synapse. Cytoplasm, cytoskeleton. Note=Translocates from cytoplasm to membranes upon cAMP treatment. Localized in recycling endosomes

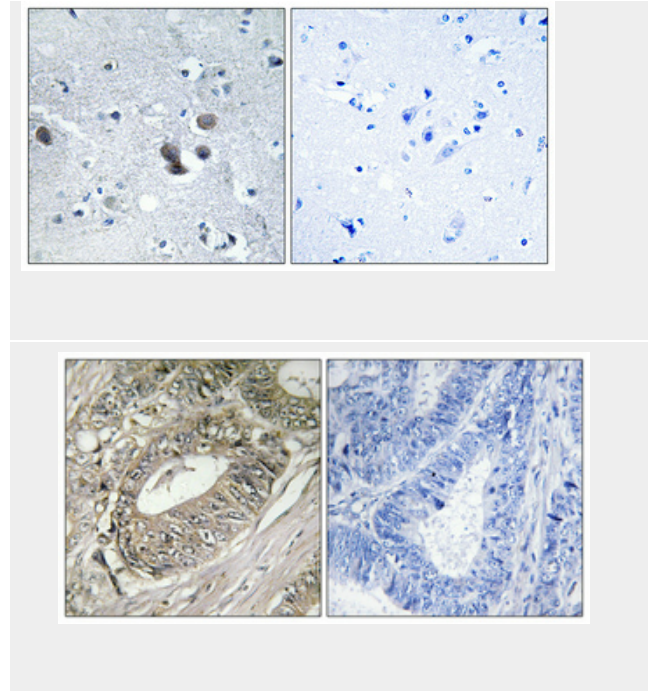
Tissue Location

Expressed in placenta, lung, heart, brain, kidney and pancreas

BIG2 Polyclonal 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](#)



BIG2 Polyclonal Antibody - Background

Promotes guanine-nucleotide exchange on ARF1 and ARF3 and to a lower extent on ARF5 and ARF6. Promotes the activation of ARF1/ARF5/ARF6 through replacement of GDP with GTP. Involved in the regulation of Golgi vesicular transport. Required for the integrity of the endosomal compartment. Involved in trafficking from the trans-Golgi network (TGN) to endosomes and is required for membrane association of the AP-1 complex and GGA1. Seems to be involved in recycling of the transferrin receptor from recycling endosomes to the plasma membrane. Probably is involved in the exit of GABA(A) receptors from the endoplasmic reticulum. Involved in constitutive release of tumor necrosis factor receptor 1 via exosome-like vesicles; the function seems to involve PKA and specifically PRKAR2B. Proposed to act as A kinase-anchoring protein (AKAP) and may mediate crosstalk between Arf and PKA pathways.