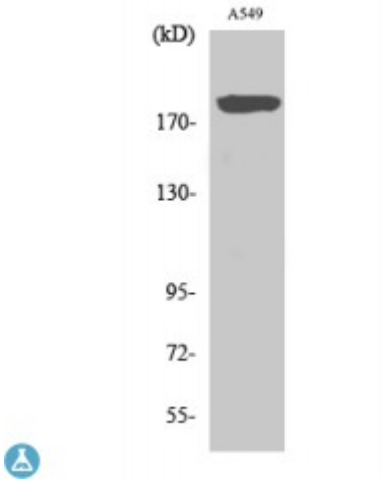
Anti-BIG2 antibody



Description	Rabbit polyclonal to BIG2.

Model	STJ91854
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, IHC, WB
Immunogen	Synthesized peptide derived from human BIG2
Immunogen Region	1460-1540 aa, C-terminal
Gene ID	10564
Gene Symbol	ARFGEF2
Dilution range	WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:20000
Specificity	BIG2 Polyclonal Antibody detects endogenous levels of BIG2 protein.
Tissue Specificity	Expressed in placenta, lung, heart, brain, kidney and pancreas.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Brefeldin A-inhibited guanine nucleotide-exchange protein 2 Brefeldin A-inhibited GEP 2 ADP-ribosylation factor guanine nucleotide-exchange factor 2
Molecular Weight	210 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:15853OMIM:605371
Alternative Names	Brefeldin A-inhibited guanine nucleotide-exchange protein 2 Brefeldin A-inhibited GEP 2 ADP-ribosylation factor guanine nucleotide-exchange factor 2
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 Localization	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. Translocates from cytoplasm to membranes upon cAMP treatment. Localized in recycling endosomes.
Post-translational Modifications	In vitro phosphorylated by PKA reducing its GEF activity and dephosphorylated by phosphatase PP1.