

KO-Validated Anti-ARFGEF2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2443

Product Information

Application	WB, FC, ICC
Primary Accession	Q9Y6D5
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB3860
Calculated MW	202038
Gene Name	ARFGEF2
Aliases	ARFGEF2; ADP Ribosylation Factor Guanine Nucleotide Exchange Factor 2; BIG2; Brefeldin A-Inhibited Guanine Nucleotide-Exchange Protein 2; ADP-Ribosylation Factor Guanine Nucleotide-Exchange Factor 2 (Brefeldin A-Inhibited); Brefeldin A-Inhibited GEP; ADP-Ribosylation Factor Guanine Nucleotide-Exchange Factor; DJ1164I10.1; ARFGEP2; PVNH2
Immunogen	A synthesized peptide derived from human ARFGEF2

Additional Information

Gene ID	10564
Other Names	Brefeldin A-inhibited guanine nucleotide-exchange protein 2, Brefeldin A-inhibited GEP 2, ADP-ribosylation factor guanine nucleotide-exchange factor 2, ARFGEF2, ARFGEP2, BIG2

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. 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

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