ARF GAP3 Monoclonal Antibody

Catalog No	YP-mAb-03709
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	ARFGAP3
Protein Name	ADP-ribosylation factor GTPase-activating protein 3
Immunogen	Synthesized peptide derived from ARF GAP3 . at AA range: 280-360
Specificity	ARF GAP3 Monoclonal Antibody detects endogenous levels of ARF GAP3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ARFGAP3; ARFGAP1; ADP-ribosylation factor GTPase-activating protein 3; ARF GAP 3
Observed Band	60kD
Cell Pathway	Cytoplasm . Golgi apparatus membrane ; Peripheral membrane protein ; Cytoplasmic side . Also found on peripheral punctate structures likely to be endoplasmic reticulum-Golgi intermediate compartment.
Tissue Specificity	Widely expressed. Highest expression in endocrine glands (pancreas, pituitary gland, salivary gland, and prostate) and testis with a much higher expression in the testis than in the ovary.
Function	caution:Was originally (PubMed:10704287) termed ARFGAP1.,developmental stage:Expressed at higher level in adult thymus, brain and lung, than in corresponding fetal tissues. Expressed at lower level in spleen, heart, kidney and liver during development.,enzyme regulation:GAP activity stimulated by phosphatidylinositol 4,5-bisphosphate (PIP2).,function:GTPase-activating protein (GAP) for ADP ribosylation factor 1 (ARF1). Hydrolysis of ARF1-bound GTP may lead to dissociation of coatomer from Golgi-derived membranes to allow fusion with target membranes.,similarity:Contains 1 Arf-GAP domain.,subcellular location:Also found on peripheral punctate structures likely to be endoplasmic reticulum-Golgi intermediate compartment.,tissue specificity:Widely expressed. Highest expression in endocrine glands (pancreas, pituary gland, salivary gland, and prostate) and testis with a much higher expression

Background	The protein encoded by this gene is a GTPase-activating protein (GAP) that associates with the Golgi apparatus and regulates the early secretory pathway of proteins. The encoded protein promotes hydrolysis of ADP-ribosylation factor 1 (ARF1)-bound GTP, which is required for the dissociation of coat proteins from Golgi-derived membranes and vesicles. Dissociation of the coat proteins is a prerequisite for the fusion of these vesicles with target compartments. The activity of this protein is sensitive to phospholipids. Multiple transcript variants encoding different isoforms have been found for this gene. This gene was originally known as ARFGAP1, but that is now the name of a related but different gene. [provided by RefSeq, Nov 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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