



GRP1 Polyclonal Antibody

Catalog No	YP-Ab-03910
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB;ELISA
Gene Name	CYTH3
Immunogen	The antiserum was produced against synthesized peptide derived from human GRP1. AA range:351-400
Specificity	GRP1 Polyclonal Antibody detects endogenous levels of GRP1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CYTH3;ARF nucleotide-binding site opener 3;Cytohesin-3;Grp1;PH;SEC7 and coiled-coil domain-containing protein 3;ARNO3;PSCD3;Protein ARNO3;General receptor of phosphoinositides 1
Observed Band	46kD
Calculated Molecular Weight	46kD
Cell Pathway	Cytoplasm, cytosol. Cell membrane ; Peripheral membrane protein . Cell junction, adherens junction . Cell junction, tight junction . Translocates from the cytosol to membranes enriched in phosphatidylinositol 3,4,5-trisphosphate. .
Tissue Specificity	Almost absent from liver, thymus and peripheral blood lymphocytes.
Function	function:Promotes guanine-nucleotide exchange on ARF1. Promotes the activation of ARF through replacement of GDP with GTP.,similarity:Contains 1 PH domain.,similarity:Contains 1 SEC7 domain.,subunit:Binds via its PH domain to the inositol head group of phosphotidylinositol 3,4,5-triphosphate with high affinity. Interacts with GRASP.,tissue specificity:Almost absent from liver, thymus and peripheral blood lymphocytes.,

**Background**

This gene encodes a member of the PSCD (pleckstrin homology, Sec7 and coiled-coil domains) family. PSCD family members have identical structural organization that consists of an N-terminal coiled-coil motif, a central Sec7 domain, and a C-terminal pleckstrin homology (PH) domain. The coiled-coil motif is involved in homodimerization, the Sec7 domain contains guanine-nucleotide exchange protein (GEP) activity, and the PH domain interacts with phospholipids and is responsible for association of PSCDs with membranes. Members of this family appear to mediate the regulation of protein sorting and membrane trafficking. This encoded protein is involved in the control of Golgi structure and function, and it may have a physiological role in regulating ADP-ribosylation factor protein 6 (ARF) functions, in addition to acting on ARF1. [provided by RefSeq, Jul 2008],

matters needing attention

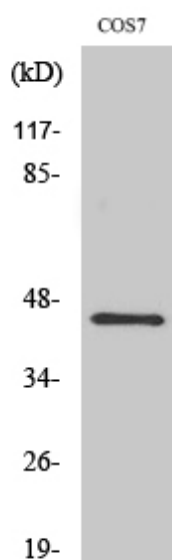
Avoid repeated freezing and thawing!

Usage suggestions

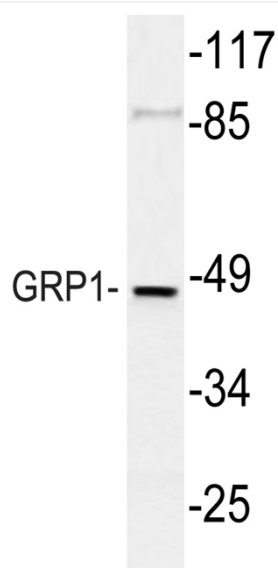
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Western Blot analysis of various cells using GRP1 Polyclonal Antibody



Western blot analysis of lysate from COS7 cells, using GRP1 antibody.