



FGD1 rabbit pAb

Catalog No	BYab-08141
Isotype	IgG
Reactivity	Human; Mouse
Applications	WB
Gene Name	FGD1 FGDY ZFYVE3
Protein Name	FGD1
Immunogen	Synthesized peptide derived from human FGD1 AA range: 508-558
Specificity	This antibody detects endogenous levels of FGD1 at Human/Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.256% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	FYVE, RhoGEF and PH domain-containing protein 1 (Faciogenital dysplasia 1 protein) (Rho/Rac guanine nucleotide exchange factor FGD1) (Rho/Rac GEF) (Zinc finger FYVE domain-containing protein 3)
Observed Band	105kD
Cell Pathway	Cytoplasm . Cell projection, lamellipodium . Cell projection, ruffle . Cytoplasm, cytoskeleton . Associated with membrane ruffles and lamellipodia. .
Tissue Specificity	Expressed in fetal heart, brain, lung, kidney and placenta. Less expressed in liver; adult heart, brain, lung, pancreas and skeletal muscle.
Function	disease:Defects in FGD1 are a cause of non-syndromal X-linked mental retardation.,disease:Defects in FGD1 are the cause of Aarskog-Scott syndrome (AAS) [MIM:305400]. This faciogenital dysplasia is a rare multisystemic disorder characterized by disproportionately short stature, and by facial, skeletal, and urogenital anomalies.,domain:The DH domain is involved in interaction with CCPG1.,function:Activates CDC42, a member of the Ras-like family of Rho-and Rac proteins, by exchanging bound GDP for free GTP. Plays a role in regulating the actin cytoskeleton and cell shape.,similarity:Contains 1 DH (DBL-homology) domain.,similarity:Contains 1 FYVE-type zinc finger.,similarity:Contains 2 PH

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domains.,subcellular location:Associated with membrane ruffles and lamellipodia.,subunit:Interacts with DBNL/ABP1 and CTTN. May interact with CCPG1 (By similarity). Binds CDC42.,tissue specificity:Expressed

Background

This gene encodes a protein that contains Dbl (DH) and pleckstrin (PH) homology domains and is similar to the Rho family of small GTP-binding proteins. The encoded protein specifically binds to the Rho family GTPase Cdc42Hs and can stimulate the GDP-GTP exchange of the isoprenylated form of Cdc42Hs. It also stimulates the mitogen activated protein kinase cascade leading to c-Jun kinase SAPK/JNK1 activation. Defects in this gene are the cause of faciogenital dysplasia and X-linked mental retardation, syndromatic 16.[provided by RefSeq, Mar 2011],

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

