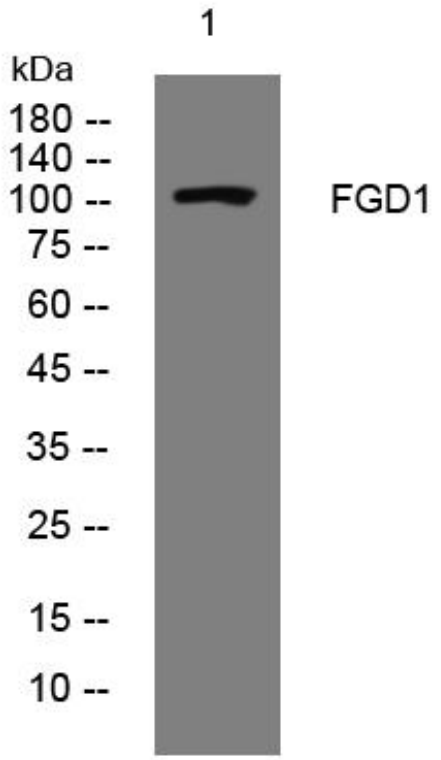
FGD1 mouse mAb

Catalog No	BYmab-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	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-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

	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



Western Blot analysis of various cells using FGD1 mouse mAb