

FGD1 Rabbit pAb

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Catalog # AP56107

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P98174
Reactivity	Rat, Mouse
Predicted	Pig, Dog, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	106561
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FGD1
Epitope Specificity	601-700/961
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Cell projection > lamellipodium. Cell projection > ruffle. Cytoplasm > cytoskeleton. Associated with membrane ruffles and lamellipodia.
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. Note=Defects in FGD1 are found in a pateint with non-syndromal X-linked mental retardation.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	2245
Other Names	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, FGD1, FGDY, ZFYVE3
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

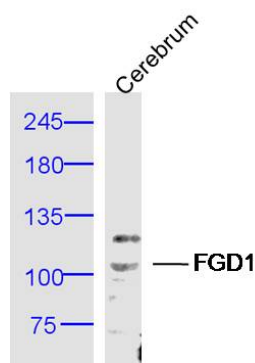
Protein Information

Name	FGD1
Synonyms	FGDY, ZFYVE3
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.
Cellular Location	Cytoplasm. Cell projection, lamellipodium. Cell projection, ruffle Cytoplasm, cytoskeleton. Note=Associated with membrane ruffles and lamellipodia.
Tissue Location	Expressed in fetal heart, brain, lung, kidney and placenta. Less expressed in liver; adult heart, brain, lung, pancreas and skeletal muscle

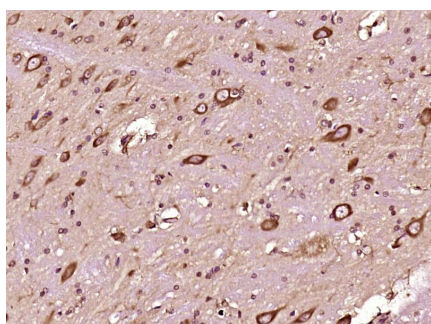
Background

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Images



Sample: Cerebrum (Mouse) Lysate at 40 ug
Primary: Anti-FGD1 (AP56107) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 107 kD
Observed band size: 107 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain);
Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FGD1) Polyclonal Antibody, Unconjugated (AP56107) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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