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# Rabbit Anti-FGD1 antibody

SL16077R

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| **Product Name:** | FGD1 |
| **Chinese Name:** | FGD1蛋白抗体 |
| **Alias:** | AAS; Faciogenital dysplasia 1 protein; FGD1; FGD1_HUMAN; FGDY; FYVE RhoGEF and PH domain containing protein 1; FYVE, RhoGEF and PH domain-containing protein 1; Rho/Rac GEF; Rho/Rac guanine nucleotide exchange factor FGD1; ZFYVE3; Zinc finger FYVE domain containing protein 3; Zinc finger FYVE domain-containing protein 3. |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep, |
| **Applications:** | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 107kDa |
| **Cellular localization:** | cytoplasmic |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human FGD1:601-700/961 |
| **Lsotype:** | IgG |
| **Purification:** | affinity purified by Protein A |
| **Storage Buffer:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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. |
| **PubMed:** | PubMed |
| **Product Detail:** | 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. |

**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.

**Subcellular Location:**
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.

**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.

**Similarity:**
Contains 1 DH (DBL-homology) domain.
Contains 1 FYVE-type zinc finger.
Contains 2 PH domains.

**SWISS:**
P98174

**Gene ID:**
2245

**Database links:**

Entrez Gene: 2245 Human

Omim: 305400 Human

SwissProt: P98174 Human

Unigene: 631767 Human

Unigene: 709201 Human

**Important Note:**

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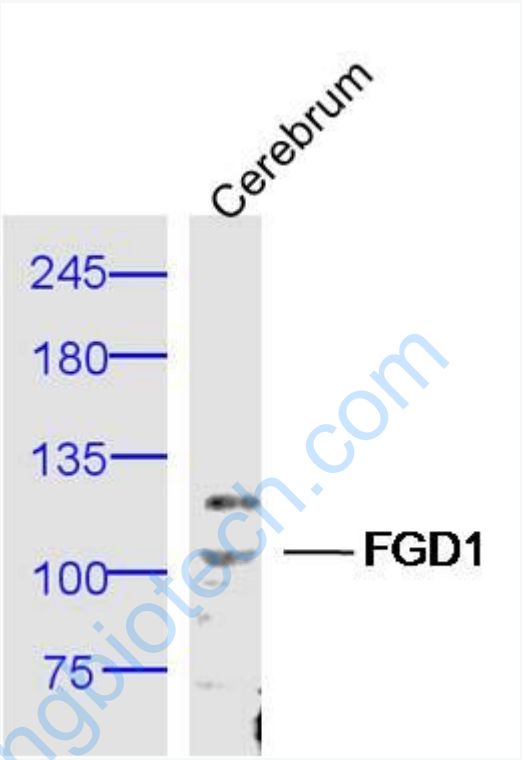
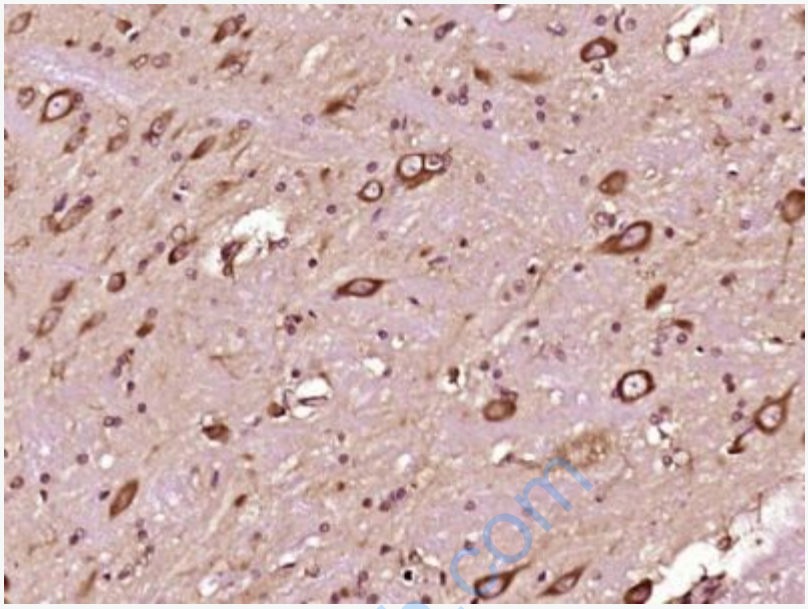
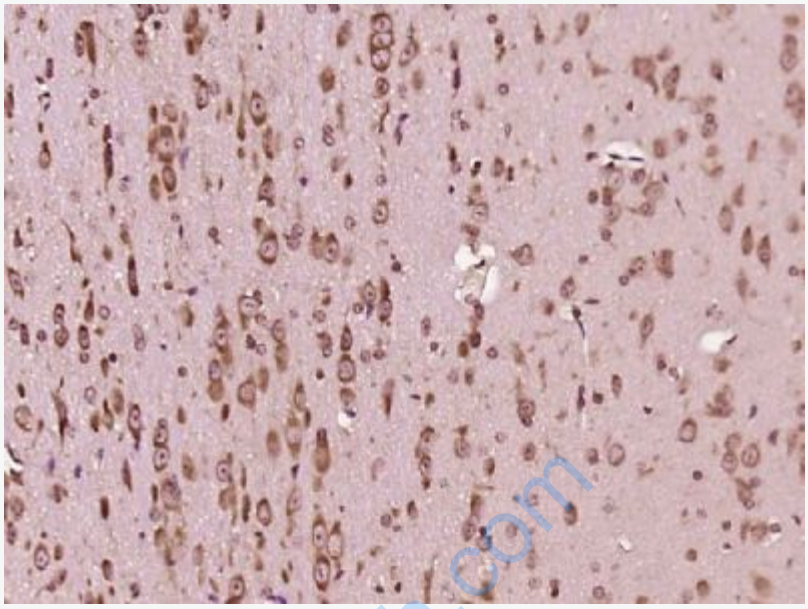
| | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Picture:** |  <br>Sample: Cerebrum (Mouse) Lysate at 40 ug<br>Primary: Anti-FGD1 (SL16077R) at 1/300 dilution<br>Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution<br>Predicted band size: 107 kD<br>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 (SL16077R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse 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 (SL16077R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.