

FGD3 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56109

Specification

FGD3 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession
Reactivity
Rat
Host
Clonality
Calculated MW
Rabbit
Polyclonal
79 KDa

Physical State
Liquid
Immunogen
KLH conjugated synthetic peptide derived

from human FGD3

Epitope Specificity 501-600/725

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 > cytoskeleton.

SIMILARITY Contains 1 DH (DBL-homology) domain.
Contains 1 FYVE-type zinc finger. Contains

2 PH domains.

Important Note

This product as supplied is intended for research use only, not for use in human.

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

FGD1 gene mutations result in faciogenital dysplasia (FGDY, Aarskog-Scott syndrome), an X-linked developmental disorder that adversely affects the formation of multiple skeletal structures. FGD1 maps to human chromosome Xp11.21 and shares a high degree of sequence identity with the FGD2 (6p21.2) and the FGD3 (9q22.31) proteins. FGD1 encodes a guanine nucleotide exchange factor that specifically activates the Rho GTPase Cdc42. FGD2 is present in several diverse tissues during embryogenesis, suggesting a role in embryonic development. FGD3 stimulates fibroblasts to form filopodia, which are Actin microspikes formed upon the stimulation of Cdc42. All FGD family members contain equivalent signaling domains and a conserved structural organization, which strongly suggests that these signaling domains form a canonical core structure for members of the FGD family of RhoGEF proteins. These proteins control essential signals required during embryonic development.

FGD3 Polyclonal Antibody - Additional Information

Gene ID 89846

Other Names

FYVE, RhoGEF and PH domain-containing protein 3, Zinc finger FYVE domain-containing protein 5, FGD3, ZFYVE5



Dilution

 $< span \ class = "dilution_WB">WB~\sim 1:1000 < /span> < br \> < span \ class = "dilution_IHC-P">IHC-P~\sim N/A < /span> < br \> < span \ class = "dilution_IHC-F">IHC-F~\sim N/A < /span> < br \> < span \ class = "dilution_IF">IF~\sim 1:50 \sim 200 < /span> < br \> < span \ class = "dilution_ICC">ICC~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\sim N/A < /span> < br \> < span \ class = "dilution_E">E~\ D_{\text{N}} \ D_{\text{N$

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.

FGD3 Polyclonal Antibody - Protein Information

Name FGD3

Synonyms ZFYVE5

Function

Promotes the formation of filopodia. May activate CDC42, a member of the Ras-like family of Rhoand Rac proteins, by exchanging bound GDP for free GTP. Plays a role in regulating the actin cytoskeleton and cell shape (By similarity).

Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton

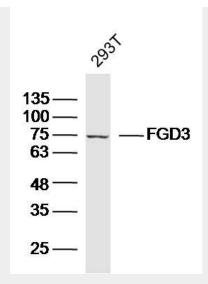
FGD3 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FGD3 Polyclonal Antibody - Images





Sample: 293T Cell (Human) Lysate at 40 ug Primary: Anti-FGD3 (bs-16079R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 79 kD Observed band size: 75 kD