

For Research Use Only

# FGD1 Recombinant antibody

Catalog Number: 84783-2-RR



## Basic Information

<b>Catalog Number:</b> 84783-2-RR	<b>GenBank Accession Number:</b> BC034530	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 ug/ml	<b>GeneID (NCBI):</b> 2245	<b>CloneNo.:</b> 242314C3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P98174	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> FYVE, RhoGEF and PH domain containing 1	
<b>Immunogen Catalog Number:</b> AG3861	<b>Calculated MW:</b> 901 aa, 91 kDa	
	<b>Observed MW:</b> 130 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : SK-N-SH cells, U-87 MG cells, BxPC-3 cells, U2OS cells
<b>Species Specificity:</b> human	

## Background Information

FGD1 is also named as FGDY (Faciogenital dysplasia 1 protein), ZFYVE3 (Zinc finger FYVE domain-containing protein 3), Rho/Rac guanine nucleotide exchange factor FGD1 (Rho/Rac GEF), FYVE, RhoGEF and PH domain-containing protein 1. FGD1 activates CDC42, a member of the Ras-like family of Rho- and Rac proteins, by exchanging bound GDP for free GTP. And FGD1 plays a role in regulating the actin cytoskeleton and cell shape. (PMID: 8969170). FGD1 was markedly overexpressed and might be a prognostic biomarker in osteosarcoma patient specimens (PMID: 32194840). FGD1 is specific for the Rho GTPase cell division cycle 42 (CDC42) (PMID: 22854039).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

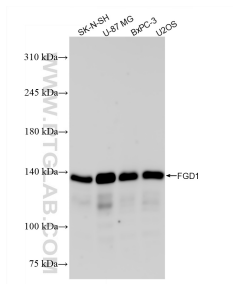
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

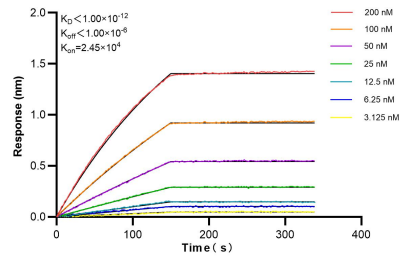
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84783-2-RR (FGD1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 84783-2-RR against Human FGD1 were performed. The affinity constant is below 1 pM.