For Research Use Only

GEFT Monoclonal antibody

Catalog Number:66012-1-Ig 1 Publications

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Basic Information

Catalog Number:
66012-1-Ig

Size:
150ul , Concentration: 1340 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG10819

GenBank Accession Number:
BC012860

GeneID (NCBI):
115557

UNIPROT ID:
Q86VW2

Full Name:
RhoA/RAC/CDC42 exchange factor

Calculated MW:
64 kDa

Observed MW:
53 kDa, 63 kDa

Purification Method:
Protein A purification

CloneNo.:
5A11F8

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:20-1:200
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat, pig, rabbit

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse skeletal muscle tissue, human brain tissue, mouse brain tissue, rat brain tissue, rat skeletal muscle tissue

IHC : human heart tissue, human brain tissue

IF/ICC : HepG2 cells,

Background Information

GEFT, also named as p63RhoGEF, may play a role in actin cytoskeleton reorganization in different tissues since its activation induces formation of actin stress fibers. It works as a guanine nucleotide exchange factor for Rho family of small GTPases. GETF links specifically G alpha q/11-coupled receptors to RHOA activation. GEFT may be an important regulator of processes involved in axon and dendrite formation. In neurons seems to be an exchange factor primarily for RAC1. It is involved in skeletal myogenesis. GEFT is expressed as three isoforms (64, 53 and 68kDa).

Notable Publications

Author	Pubmed ID	Journal	Application
Behnoush Khaledian	33370472	Cancer Sci	WB

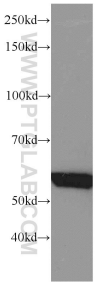
Storage

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

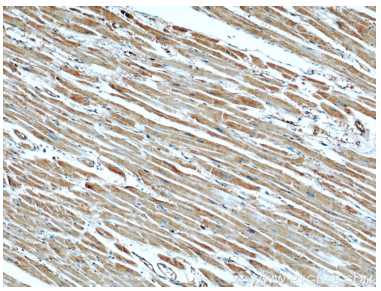
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

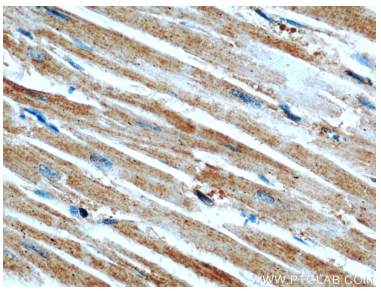
Selected Validation Data



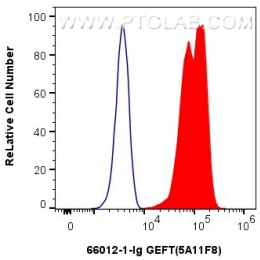
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 66012-1-Ig (GEFT antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



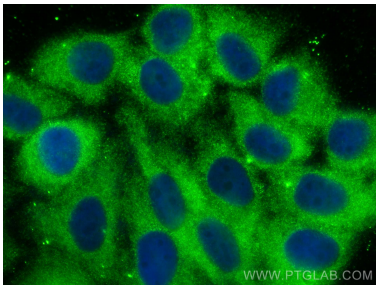
Immunohistochemical analysis of paraffin-embedded human heart using 66012-1-Ig(GEFT antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart using 66012-1-Ig(GEFT antibody) at dilution of 1:50 (under 40x lens).



1x10^6 HEK-293 cells were intracellularly stained with 0.8 ug GEFT Monoclonal antibody (66012-1-Ig, Clone:5A11F8) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1) (red), or 0.8 ug Mouse IgG2a isotype control Mouse McAb (66360-2-Ig, Clone: 11A1B2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using GEFT antibody (66012-1-Ig, Clone: 5A11F8) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).