

PTPIP51 Monoclonal antibody

Catalog Number: 68582-1-Ig

Basic Information

Catalog Number:

68582-1-Ig

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG15135

GenBank Accession Number:

BC008970

GeneID (NCBI):

55177

UNIPROT ID:

Q96TC7

Full Name:

family with sequence similarity 82, member A2

Calculated MW:

470 aa, 52 kDa

Observed MW:

52-60 kDa

Purification Method:

Protein A purification

CloneNo.:

1G11E2

Recommended Dilutions:

WB 1:2000-1:10000

IF/ICC 1:238-1:952

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human

Positive Controls:

WB : LNCaP cells, HepG2 cells, HuH-7 cells, HT-29 cells, HEK-293 cells, K-562 cells

IF/ICC : HeLa cells,

Background Information

Protein tyrosine phosphatase-interacting protein 51 (PTPIP51), also known as RMDN3, is a mitochondrial membrane-anchored protein that interacts with ER membrane-bound VAPB. The VAPB-PTPIP51 interaction impacts on intracellular Ca²⁺ handling (PMID: 22131369, 28345618). PTPIP51 participates in multiple cellular processes, and dysfunction of PTPIP51 is implicated in diseases such as cancer and neurodegenerative disorders (PMID: 28345618). The known initiation sites in the Ptpip51 gene would lead to molecular protein masses of 52, 38 and 30 kDa (PMID: 18854601, 19844996).

Storage

Storage:

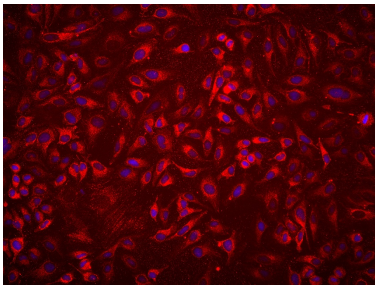
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

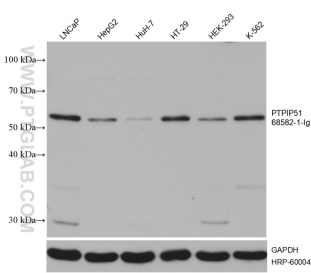
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PTPIP51 antibody (68582-1-Ig, Clone: 1G11E2) at dilution of 1:476 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



Various lysates were subjected to SDS PAGE followed by western blot with 68582-1-Ig (PTPIP51 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.