For Research Use Only

# FLAD1 Monoclonal antibody

Catalog Number:68491-1-Ig Featured Product

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## Basic Information

Catalog Number:
68491-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG6845

GenBank Accession Number:
BC011378

GeneID (NCBI):
80308

UNIPROT ID:
Q8NFF5

Full Name:
FAD1 flavin adenine dinucleotide synthetase homolog (S. cerevisiae)

Calculated MW:
446 aa, 49 kDa

Observed MW:
50 kDa

Purification Method:
Protein G purification

CloneNo.:
1F9A8

Recommended Dilutions:
WB 1:5000-1:50000

## Applications

Tested Applications:
WB, ELISA

Species Specificity:
human

Positive Controls:

WB : LNCaP cells, HEK-293 cells, U2OS cells, HeLa cells, Jurkat cells, K-562 cells

## Background Information

FLAD1 is a protein-coding gene for flavin adenine dinucleotide synthetase (FADS), a key enzyme in the FAD biosynthesis process which contains an N-terminal molybdopterin -binding (MPTb) domain and a C-terminal domain (FADS domain) (PMID: 32714079). Alternative splicing of the human FLAD1 gene generates different isoforms of the enzyme FAD synthase. ~60 and ~50 kDa bands correspond to the expected mitochondrial FADS1 and cytosolic FADS2 proteins, respectively (PMID: 29316637).

## Storage

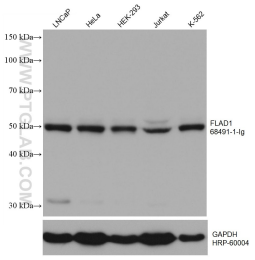
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

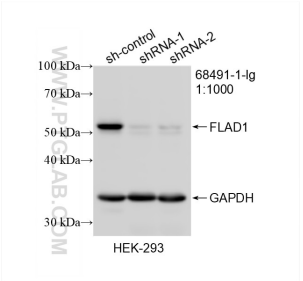
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data




Various lysates were subjected to SDS PAGE followed by western blot with 68491-1-Ig (FLAD1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.




WB result of FLAD1 antibody (68491-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FLAD1 transfected HEK-293 cells.