

TrpRS Monoclonal antibody

Catalog Number: 67952-1-Ig

Basic Information

Catalog Number:

67952-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG31430

GenBank Accession Number:

BC017489

GeneID (NCBI):

7453

UNIPROT ID:

P23381

Full Name:

tryptophanyl-tRNA synthetase

Calculated MW:

471 aa, 53 kDa

Observed MW:

53 kDa

Purification Method:

Protein A purification

CloneNo.:

1C6C3

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:500-1:2000

Applications

Tested Applications:

IF/ICC, WB, ELISA

Species Specificity:

Human, rat, mouse

Positive Controls:

WB : LNCaP cells, HSC-T6 cells, 4T1 cells, human placenta tissue, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells

IF/ICC : LNCaP cells,

Background Information

Tryptophanyl-tRNA synthetase (WRS) is a cytosolic amino acyl-tRNA synthetase essential for protein synthesis. Full-length WRS is released during bacterial infection and primes the Toll-like receptor 4 (TLR4)-myeloid differentiation factor 2 (MD2) complex to elicit innate immune responses. Inside the nucleus, WRS stimulates DNA-dependent protein kinase, catalytic subunit (DNA-PKcs), activity via its WHEP domain, leading to the phosphorylation and activation of p53 (39) (PMID:30355684).

Storage

Storage:

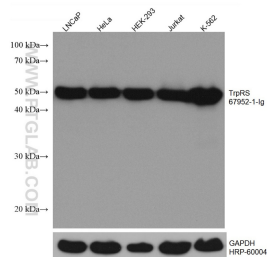
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

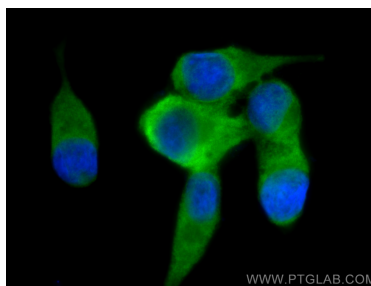
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67952-1-Ig (WARS antibody) at dilution of 1:10000 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.



Immunofluorescent analysis of (-20°C Methanol) fixed LNCaP cells using TrpRS antibody (67952-1-Ig, Clone: 1C6C3) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).