TrpRS Monoclonal antibody

Catalog Number:67952-1-Ig

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Basic Information

Catalog Number: 67952-1-Ig	**GenBank Accession Number:** BC017489	**Purification Method:** Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	**GeneID (NCBI):** 7453	**CloneNo.:** 1C6C3
Source: Mouse	**UNIPROT ID:** P23381	**Recommended Dilutions:** WB 1:5000-1:50000
Isotype: IgG2b	**Full Name:** tryptophanyl-tRNA synthetase	IF/ICC 1:500-1:2000
Immunogen Catalog Number: AG31430	**Calculated MW:** 471 aa, 53 kDa	
	Observed MW: 53 kDa	

Applications

Tested Applications:
WB, IF/ICC, 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).
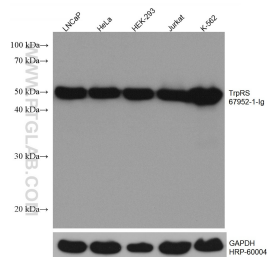
Storage

Storage:
Store at -20℃. 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
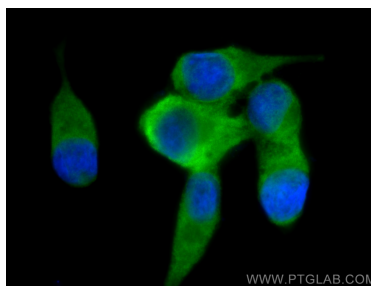
*** 20ul sizes contain 0.1% BSA

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 Goat Anti-Mouse IgG(H+L).