

For Research Use Only

TARS Monoclonal antibody

Catalog Number: 67828-1-Ig **1 Publications**



Basic Information

Catalog Number: 67828-1-Ig	GenBank Accession Number: BC000517	Purification Method: Protein A purification
Size: 150ul, Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 6897	CloneNo.: 1A11F10
Source: Mouse	Full Name: threonyl-tRNA synthetase	Recommended Dilutions: WB 1:5000-1:50000 IF 1:400-1:1600
Isotype: IgG2b	Calculated MW: 83 kDa	
Immunogen Catalog Number: AG6614	Observed MW: 83-87 kDa	

Applications

Tested Applications: IF, WB, ELISA	Positive Controls:
Cited Applications: WB	WB: HeLa cells, HSC-T6 cells, PC-12 cells, 4T1 cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells
Species Specificity: Human, mouse, rat	IF: HeLa cells,
Cited Species: human	

Background Information

TARS (Threonyl-tRNA synthetase), also known as threonine-tRNA ligase or ThrRS, belongs to the aminoacyl-tRNA synthetase family. Aminoacyl-tRNA synthetase (aaRS) catalyzes the specific esterification of an amino acid with the 3'-terminal hydroxyl group of its cognate tRNA. Specificity of aminoacylation catalyzed by aaRSs ensures the accurate translation of the genetic code in the first step of protein synthesis (PMID: 26324710). TARS has some isoforms with the molecular mass of 83, 87 kDa and other MW.

Notable Publications

Author	Pubmed ID	Journal	Application
Ning Xu	35659036	J Hematol Oncol	WB

Storage

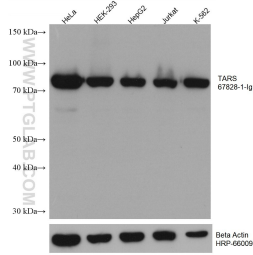
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

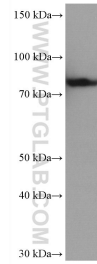
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

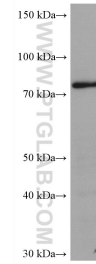
Selected Validation Data



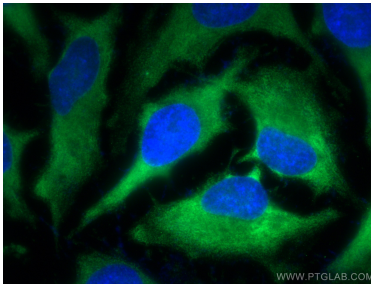
Various lysates were subjected to SDS PAGE followed by western blot with 67828-1-Ig (TARS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



HSC-T6 cells were subjected to SDS PAGE followed by western blot with 67828-1-Ig (TARS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



4T1 cells were subjected to SDS PAGE followed by western blot with 67828-1-Ig (TARS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using TARS antibody (67828-1-Ig, Clone: 1A11F10) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).