

For Research Use Only

TARS Polyclonal antibody

Catalog Number: 14773-1-AP **3 Publications**



Basic Information

Catalog Number: 14773-1-AP	GenBank Accession Number: BC000517	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 200 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6897	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: threonyl-tRNA synthetase	IHC 1:100-1:400
Isotype: IgG	Calculated MW: 83 kDa	IF 1:10-1:100
Immunogen Catalog Number: AG6614	Observed MW: 66-72 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: IP, WB	WB: A549 cells,
Species Specificity: human	IP: A549 cells,
Cited Species: human	IHC: human breast cancer tissue,
	IF: MCF-7 cells, HeLa cells, HepG2 cells

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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
Kai-Fa Teo	36271647	Clin Transl Sci	WB, IP
Sung-Hoon Kim	33340489	Mol Cell	WB
Lingling Li	36991000	Nat Commun	WB

Storage

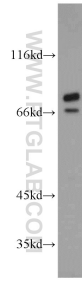
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

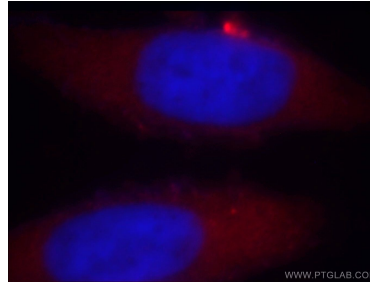
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

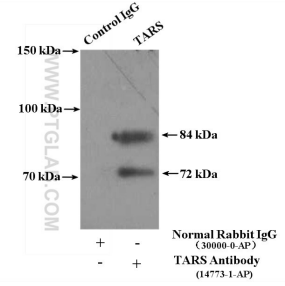
Selected Validation Data



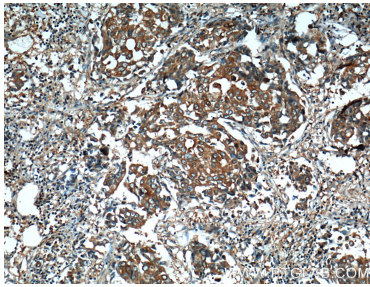
A549 cells were subjected to SDS PAGE followed by western blot with 14773-1-AP (TARS antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



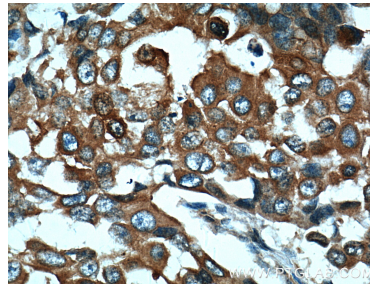
Immunofluorescent analysis of MCF-7 cells, using TARS antibody 14773-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP Result of anti-TARS (IP:14773-1-AP, 4ug; Detection:14773-1-AP 1:500) with A549 cells lysate 2400ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14773-1-AP (TARS Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14773-1-AP (TARS Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).