For Research Use Only

TARS Polyclonal antibody

Catalog Number:14773-1-AP 3 Publications



Basic Information

Catalog Number: GenBank Accession Number: 14773-1-AP BC000517

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Size: GeneID (NCBI):

150ul , Concentration: 200 ug/ml by 6897 Nanodrop and 133 ug/ml by Bradford UNIPROT ID:

method using BSA as the standard; P26639

Source: Full Name

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Rabbit threonyl-tRNA synthetase

Isotype: Calculated MW:
IgG 83 kDa
Immunogen Catalog Number: Observed MW:
AG6614 66-72 kDa

Purification Method: Antigen affinity purification Recommended Dilutions:

WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC 1:100-1:400 IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IP

Species Specificity:

human
Cited Species:

human

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

Positive Controls:

WB: A549 cells, IP: A549 cells,

IHC: human breast cancer tissue,

IF/ICC: MCF-7 cells, Hela cells, HepG2 cells

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:

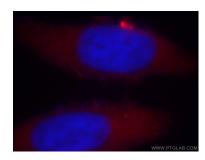
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

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.

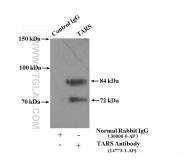
Selected Validation Data



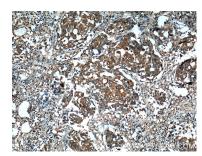
A549 cells were subjected to SDS PAGE followed by western blot with 14773-1-AP (TARS antibody) at dilution of 1:600 incubated at room temperature for



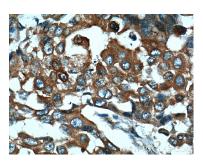
Immunofluorescent analysis of MCF-7 cells, using TARS antibody 14773-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



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



Immunohistochemical analysis of paraffinembedded 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 paraffinembedded 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).