

TARS Polyclonal Antibody

Catalog NumberPA5-30690

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Type	Antibody	Western Blot (WB)	1:500-1:3,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 346 and 657 of Human ThrRS	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.27 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	0.1M tris glycine, pH 7, with 20% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: 293T, A431, HeLa, HepG2. Predicted reactivity: Mouse (98%), Rat (98%), Zebrafish (93%), Xenopus laevis (93%), Chicken (91%), Bovine (96%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Threonyl-tRNA synthetase belongs to the class-II aminoacyl-tRNA synthetase family.

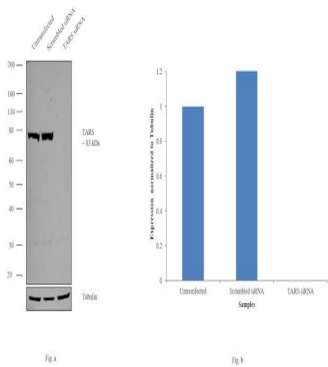
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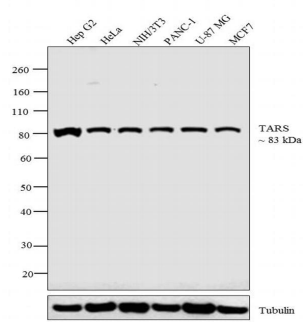
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Product Images For TARS Polyclonal Antibody



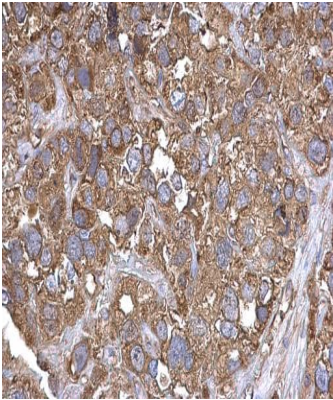
TARS Antibody (PA5-30690)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with TARS siRNA and reduction of signal was observed in Western Blot using TARS Polyclonal Antibody (Product # PA5-30690). {KD}



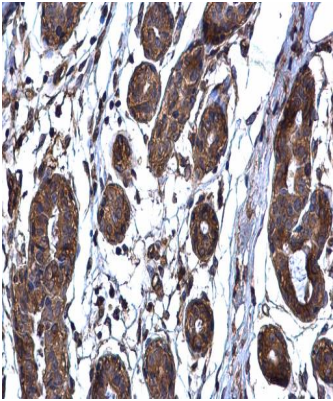
TARS Antibody (PA5-30690) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of Hep G2 (Lane 1), HeLa (Lane 2), NIH /3T3 (Lane 3), PANC-1 (Lane 4), U-87 MG (Lane5) and MCF7 (Lane 6). The blot was probed with Anti-TARS Polyclonal Antibody (Product # PA5-30690, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/ml, 1:4000 dilution). A 83 kDa band corresponding to TARS was observed across the cell lines tested.



TARS Antibody (PA5-30690) in IHC (P)

TARS Polyclonal Antibody detects ThrRS protein at cytoplasm on human cervical carcinoma by immunohistochemical analysis. Sample: Paraffin-embedded human cervical carcinoma. TARS Polyclonal Antibody (Product # PA5-30690) diluted at 1:500. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



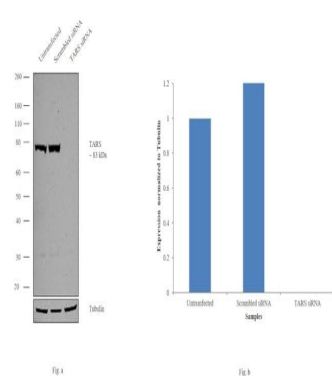
TARS Antibody (PA5-30690) in IHC (P)

TARS Polyclonal Antibody detects ThrRS protein at cytoplasm on human breast carcinoma by immunohistochemical analysis. Sample: Paraffin-embedded human breast carcinoma. TARS Polyclonal Antibody (Product # PA5-30690) diluted at 1:500. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.

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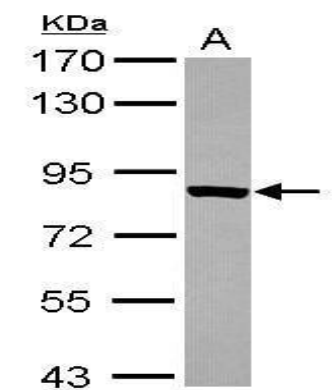
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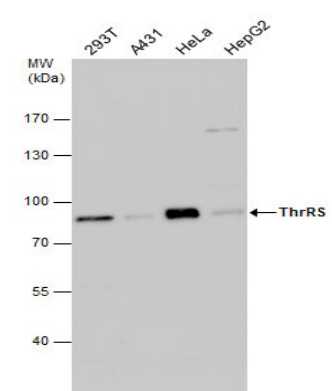
### TARS Antibody (PA5-30690) in WB

Knockdown of TARS was achieved by transfecting HeLa cells with TARS specific siRNAs (Silencer® select Product # s13793, s13794). Western blot analysis (Fig. a) was performed using whole cell extracts from the TARS knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blot was probed with TARS Polyclonal Antibody (Product # PA5-30690, 1:1,000 dilution) and Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4,000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to TARS.



### TARS Antibody (PA5-30690) in WB

Western Blot using TARS Polyclonal Antibody (Product # PA5-30690). Sample (30 µg of whole cell lysate). Lane A: A549. 7.5% SDS PAGE. TARS Polyclonal Antibody (Product # PA5-30690) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



### TARS Antibody (PA5-30690) in WB

TARS Polyclonal Antibody detects ThrRS protein by western blot analysis. Various whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with TARS Polyclonal Antibody (Product # PA5-30690) diluted by 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

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