

For Research Use Only

YARS Recombinant antibody

Catalog Number: 84859-3-RR



Basic Information

Catalog Number: 84859-3-RR	GenBank Accession Number: BC016689	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 8565	CloneNo.: 242400E9
Source: Rabbit	UNIPROT ID: P54577	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:200-1:800 IF/ICC 1:50-1:500
Isotype: IgG	Full Name: tyrosyl-tRNA synthetase	
Immunogen Catalog Number: AG35148	Calculated MW: 59 kDa	
	Observed MW: 60 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, pig	WB : A431 cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human ovary cancer tissue,
	IF/ICC : U2OS cells,

Background Information

Tyrosyl-tRNA synthetase (YARS) is responsible for tyrosyl-tRNA aminoacylation. The functional enzyme exists as a homodimer, has potent leukocyte and monocyte chemotaxis activity, and stimulates production of myeloperoxidase, tumor necrosis factor- α , and tissue factor. A shift in the monomer:dimer equilibrium could result in dysregulation of the cytokines function. (PMID: 33490854)

Storage

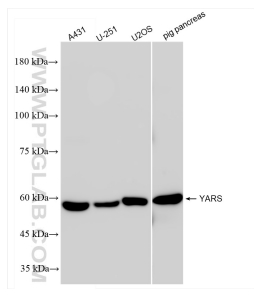
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

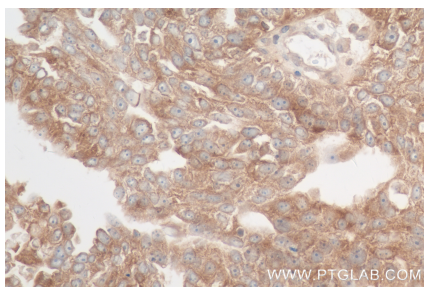
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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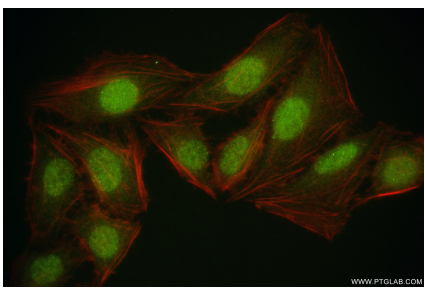
Selected Validation Data



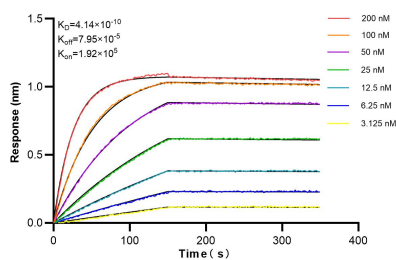
Various lysates were subjected to SDS PAGE followed by western blot with 84859-3-RR (YARS antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 84859-3-RR (YARS antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using YARS antibody (84859-3-RR, Clone: 242400E9) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 84859-3-RR against Human YARS were performed. The affinity constant is 0.414 nM.