

À des fins de recherche uniquement

# Anticorps Monoclonal anti-GARS

Numéro de catalogue: 67893-1-Ig Phare



## Informations de base

Numéro de catalogue: 67893-1-Ig	Numéro d'acquisition GenBank: BC007755	Méthode de purification: Purification par protéine A
Taille: 150ul, Concentration: 1000 µg/ml by Nanodrop;	Identification du gène (NCBI): 2617	CloneNo.: 2H9D3
Hôte: Mouse	Nom complet: glycyl-tRNA synthetase	Dilutions recommandées: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF 1:200-1:800
Isotype: IgG2a	MW calculé: 739 aa, 83 kDa	
Immunogen Catalog Number: AG8432	MW observés: 75-80 kDa	

## Applications

### Applications testées:

IF, IHC, WB, ELISA

### Spécificité de l'espèce:

Humain, rat, souris

**Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (\*) À défaut, 'le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.**

### Contrôles positifs:

WB : cellules LNCaP, cellules HEK-293, cellules HeLa, cellules HepG2, cellules HepG2, cellules HSC-T6, cellules Jurkat, cellules K-562, cellules NIH/3T3

IHC : tissu de cancer de la peau humain,

IF : cellules A431,

## Informations générales

Glycyl-tRNA synthetase 1 (GARS, GeneID:2617) is one of the aminoacyl-tRNA synthetases. It is essential for protein synthesis in all cells and tissues (PMID: 17035524) and charges tRNA molecules with glycine by catalyzing the ATP-dependent ligation of glycine to the 3'-end of its cognate tRNA via the formation of an aminoacyl-adenylate intermediate (Gly-AMP) (PMID: 17544401, PMID: 28675565, PMID: 24898252). GARS is located in cytoplasm, but also can be secreted from cells and as an extracellular protein which may influence cell signaling. Mutation of GARS causes peripheral neuropathies such as CMT2D, SMA (PMID: 26503042, PMID: 32181591), or associates with cancer. Two transcript variants encoding different isoforms have been found for this gene. The molecular weight of isoform2 is about 78 kDa.

## Stockage

### Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

### Tampon de stockage:

PBS avec azotate de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

\*\*\* Les 20ul contiennent 0,1% de BSA.

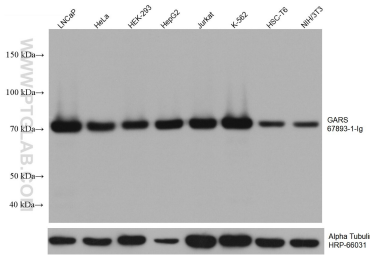
For technical support and original validation data for this product please contact:

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

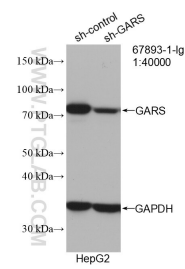
E: proteintech@ptglab.com  
W: ptglab.com

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

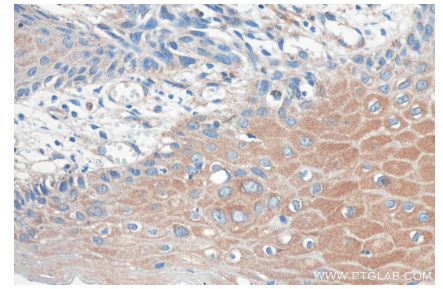
## Données de validation sélectionnées



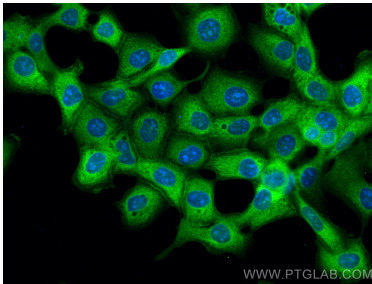
Various lysates were subjected to SDS PAGE followed by western blot with 67893-1-Ig (GARS antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



WB result of GARS antibody (67893-1-Ig: 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GARS transfected HepG2 cells.



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 67893-1-Ig (GARS antibody) at dilution of 1:2000 (under 40x lens).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using GARS antibody (67893-1-Ig, Clone: 2H9D3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).