

Nur für Forschungszwecke

GARS Monoklonaler Antikörper

Katalog-Nr.:67893-1-Ig

Vorgestelltes Produkt



Allgemeine Informationen

Katalog-Nr.: 67893-1-Ig	GenBank-Zugangsnummer: BC007755	Reinigungsmethode: Protein-A-Reinigung
Größe: 150ul, Konzentration: 1000 µg/ml von2617 Nanodrop;	GeneID (NCBI): 2617	CloneNo.: 2H9D3
Wirt: Maus	Vollständiger Name: glycyl-tRNA synthetase	Empfohlene Verdünnungen: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF 1:200-1:800
Isotyp: IgG2a	Berechnete Masse: 739 aa, 83 kDa	
Immunogen Katalognummer: AG8432	Beobachtete Masse: 75-80 kDa	

Anwendungen

Geprüfte Anwendungen:

IF, IHC, WB, ELISA

Getestete Reaktivität:

Human, Maus, Ratte

Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Positivkontrollen:

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

IHC: humanes Hautkrebsgewebe,

IF: A431-Zellen,

Hintergrundinformationen

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.

Lagerung

Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

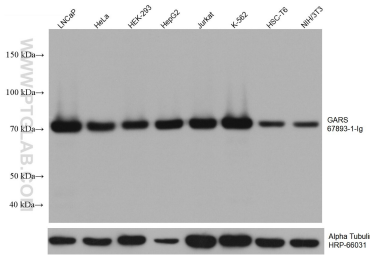
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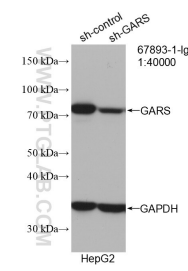
E: proteintech@ptglab.com
W: ptglab.com

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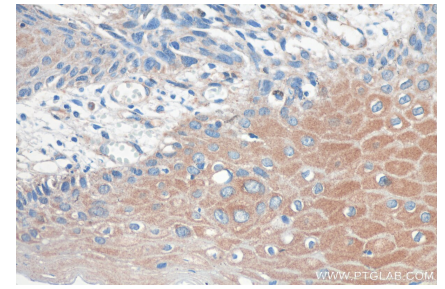
Ausgewählte Validierungsdaten



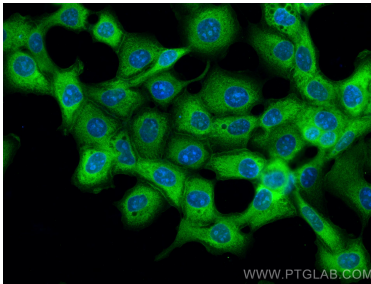
Various lysates were subjected to SDS PAGE followed by western blot with 67893-1-Ig (GARS antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



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).