

## Product datasheet for **TA805168S**

### **GARS1 Mouse Monoclonal Antibody [Clone ID: OTI6C5]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI6C5
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	WB 1:2000, IHC 1:150
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2b
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human GARS (NP_002038) produced in HEK293T cell.
<b>Formulation:</b>	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
<b>Concentration:</b>	1 mg/ml
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	83 kDa
<b>Gene Name:</b>	glycyl-tRNA synthetase
<b>Database Link:</b>	<a href="#">NP_002038</a> <a href="#">Entrez Gene 297113 Rat</a> <a href="#">Entrez Gene 353172 Mouse</a> <a href="#">Entrez Gene 2617 Human</a> <a href="#">P41250</a>
<b>Background:</b>	This gene encodes glycyl-tRNA synthetase, one of the aminoacyl-tRNA synthetases that charge tRNAs with their cognate amino acids. The encoded enzyme is an (alpha) <sub>2</sub> dimer which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis. [provided by RefSeq, Jul 2008]

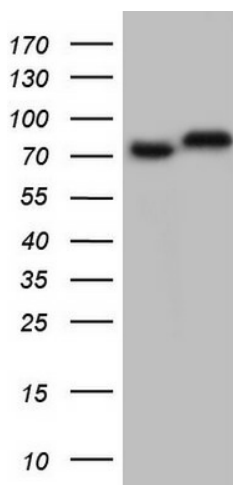


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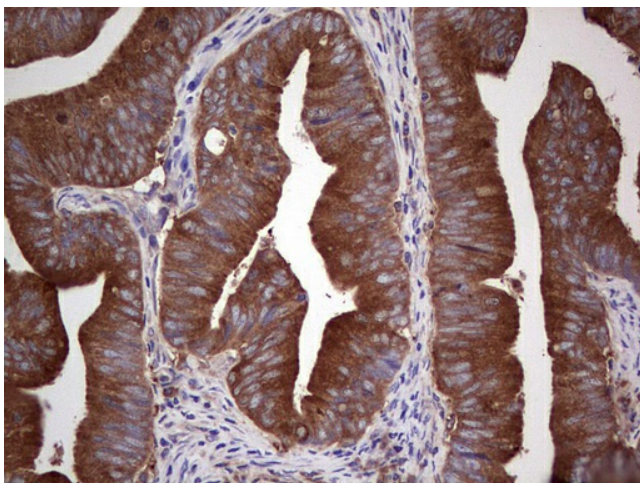
**Synonyms:** CMT2D; DSMAV; GlyRS; HMN5; SMAD1

**Protein Pathways:** Aminoacyl-tRNA biosynthesis

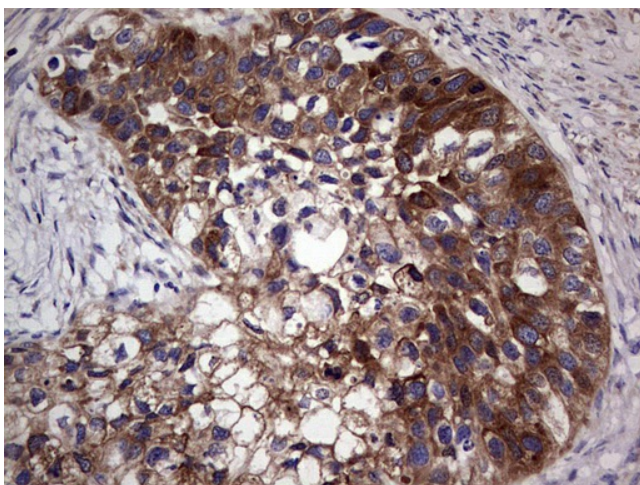
**Product images:**



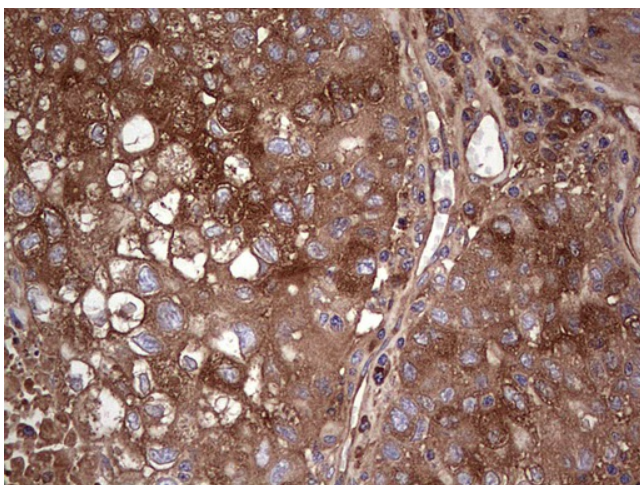
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GARS (Cat# [RC202852], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GARS(Cat# [TA805168]). Positive lysates [LY419568] (100ug) and [LC419568] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-GARS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA805168])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-GARS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA805168])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-GARS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA805168])