

For Research Use Only

# GLS Recombinant antibody

Catalog Number: 81486-1-RR



## Basic Information

<b>Catalog Number:</b> 81486-1-RR	<b>GenBank Accession Number:</b> BC038507	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2744	<b>CloneNo.:</b> 4C20
<b>Source:</b> Rabbit	<b>Full Name:</b> glutaminase	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:200-1:800
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 669 aa, 73 kDa	
<b>Immunogen Catalog Number:</b> AG3505	<b>Observed MW:</b> 58 kDa, 65 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : A549 cells, HeLa cells, COLO 320 cells, HEK-293 cells, SH-5Y5Y cells, NIH/3T3 cells, HSC-T6 cells, mouse brain tissue, rat brain tissue

**IHC** : mouse brain tissue,

## Background Information

GLS, also named as GLS1 and KIAA0838, belongs to the glutaminase family. It catalyzes the first reaction in the primary pathway for the renal catabolism of glutamine. Glutaminase-, glutamate-, and taurine-immunoreactive neurons develop neurofibrillary tangles in Alzheimer's disease(PMID:1672808).The glutaminase band in AA/C1 cells is more intense than in HT29 cells, in accordance with measurements of glutaminase activity, and had the same molecular mass of approx. 63 kDa. The bands for both cell lines are clearly different in size from both rat liver glutaminase (58 kDa) and rat kidney glutaminase (65 kDa)(PMID:12408749). It also reveals a molecular weight of 83-84 kDa as a phosphate-dependent glutaminase(PMID:447624;7512428). It has 3 isoforms named as KGA, GAM, GAC. This antibody can recognize KGA and GAC.

## 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**

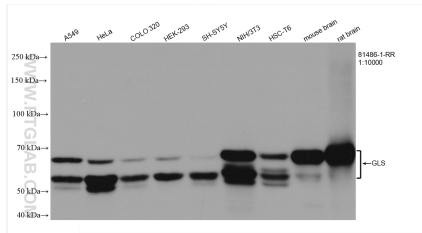
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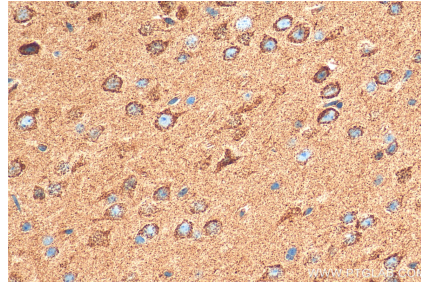
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 81486-1-RR (GLS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 81486-1-RR (GLS antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).