

# Glutaminase (GLS) Rabbit mAb

Catalog No.: A11043   **Recombinant**   **2 Publications**

## Basic Information

### Observed MW

55-65kDa

### Calculated MW

73kDa

### Category

Primary antibody

### Applications

WB, IF/ICC, ELISA

### Cross-Reactivity

Human

### Clone/No. number

ARC0519

## Background

This gene encodes the K-type mitochondrial glutaminase. The encoded protein is an phosphate-activated amidohydrolase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. This protein is primarily expressed in the brain and kidney plays an essential role in generating energy for metabolism, synthesizing the brain neurotransmitter glutamate and maintaining acid-base balance in the kidney. Alternate splicing results in multiple transcript variants.

## Recommended Dilutions

**WB**                    1:1000 - 1:10000

**IF/ICC**                1:50 - 1:200

**ELISA**                Recommended starting concentration is 1  $\mu$ g/mL.  
Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

2744

### Swiss Prot

094925

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

GAC; GAM; KGA; GLS1; AAD20; DEE71; GDPAG; CASGID; EIEE71; Glutaminase (GLS)

## Contact

|  |  |
|--|--|
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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

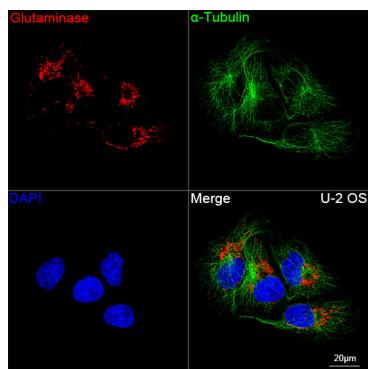
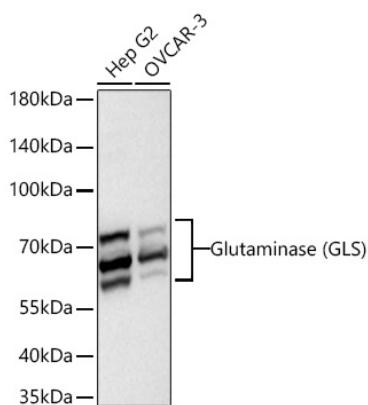
Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data



Confocal imaging of U-2 OS cells using Glutaminase (GLS) Rabbit mAb (A11043, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.