

## Product datasheet

# Anti-GLS2 antibody ab113509

★★★★★ 2 Abreviews 9 References 5 Images

### Overview

<b>Product name</b>	Anti-GLS2 antibody
<b>Description</b>	Rabbit polyclonal to GLS2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, IHC-Fr, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human GLS2 (internal sequence). (Peptide available as <a href="#">ab169954</a> )
<b>Positive control</b>	Rat kidney tissue lysate

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.02% Sodium azide Constituent: 99.98% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab113509** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

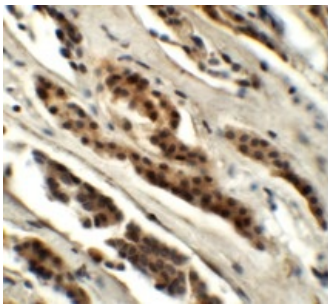
Application	Abreviews	Notes
ICC/IF		Use a concentration of 20 µg/ml.
IHC-Fr		1/1000.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 1 µg/ml. Predicted molecular weight: 66 kDa. Can be blocked with <a href="#">GLS2 peptide (ab169954)</a> .
IHC-P	★★★★☆	Use a concentration of 5 µg/ml.

## Target

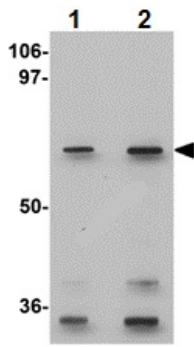
<b>Function</b>	Plays an important role in the regulation of glutamine catabolism. Promotes mitochondrial respiration and increases ATP generation in cells by catalyzing the synthesis of glutamate and alpha-ketoglutarate. Increases cellular anti-oxidant function via NADH and glutathione production. May play a role in preventing tumor proliferation.
<b>Tissue specificity</b>	Highly expressed in liver. Expressed in brain and pancreas. Not observed in heart, placenta, lung, skeletal muscle and kidney. Expression is significantly reduced in hepatocellular carcinomas.
<b>Sequence similarities</b>	Belongs to the glutaminase family. Contains 2 ANK repeats.
<b>Cellular localization</b>	Mitochondrion.

## Images



Immunohistochemistry of GLS2 in human kidney tissue with ab113509 antibody at 5 ug/mL.

Immunohistochemistry - Anti-GLS2 antibody (ab113509)



Western blot - Anti-GLS2 antibody (ab113509)

**Lane 1** : Anti-GLS2 antibody (ab113509) at

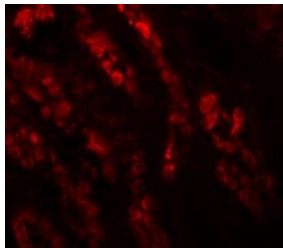
0.5 µg/ml

**Lane 2** : Anti-GLS2 antibody (ab113509) at 1

µg/ml

**All lanes** : GLS2 in Rat Kidney Lysate

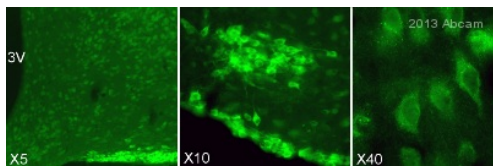
**Predicted band size:** 66 kDa



Immunocytochemistry/ Immunofluorescence - Anti-GLS2 antibody (ab113509)

Immunofluorescence of GLS2 in Human

Kidney cells using ab113509 at 20 µg/ml.



Immunohistochemistry (Frozen sections) - Anti-GLS2 antibody (ab113509)

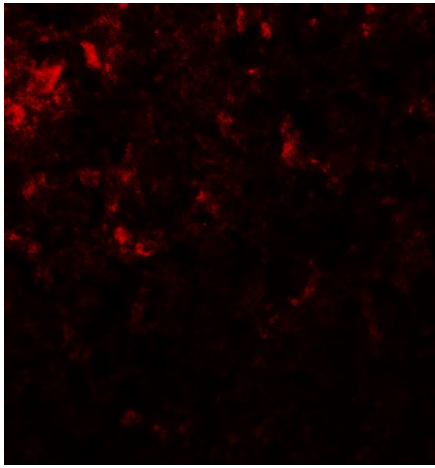
Image Courtesy of Sophie Pezet, INSERM, France

Ab113509 IHC-FoFr on rat brain tissue

sections. The antibody was used at 1/1000 in

the free floating technique for 18 hours at

20°C. There was no blocking step.



Immunocytochemistry/Immunofluorescence analysis of rat liver cells labelling GLS2 with ab113509 at 20 µg/mL.

Immunocytochemistry/ Immunofluorescence - Anti-GLS2 antibody (ab113509)

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