

Product datasheet

Anti-GLS2 antibody ab113509

★★★★★ 2 Abreviews 9 References 5 Images

Overview

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

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 99.98% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	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 GLS2 peptide (ab169954) .
IHC-P	★★★★☆	Use a concentration of 5 µg/ml.

Target

Function

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.

Tissue specificity

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.

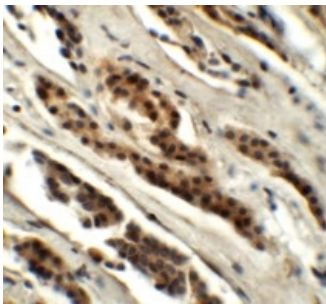
Sequence similarities

Belongs to the glutaminase family.
Contains 2 ANK repeats.

Cellular localization

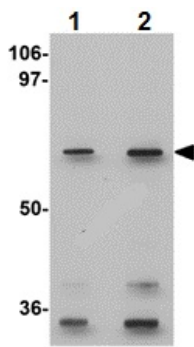
Mitochondrion.

Images



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

Immunohistochemistry - Anti-GLS2 antibody (ab113509)



Western blot - Anti-GLS2 antibody (ab113509)

Lane 1 : Anti-GLS2 antibody (ab113509) at

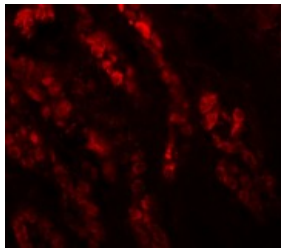
0.5 µg/ml

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

µg/ml

All lanes : GLS2 in Rat Kidney Lysate

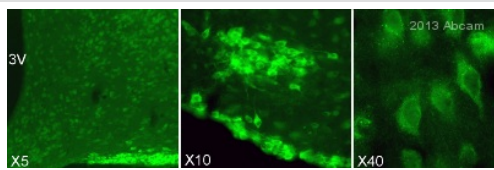
Predicted band size: 66 kDa



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)

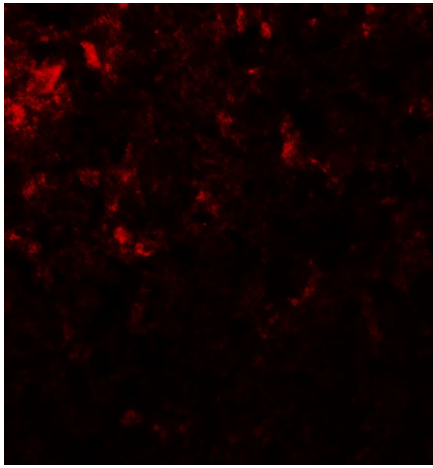
Image Courtesy of Sophie Pezet, INSERM, France

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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