




Product datasheet

Anti-Glutamine Synthetase antibody ab49873

★★★★★ [12 Abreviews](#) [65 References](#) [1 Image](#)

Overview

Product name	Anti-Glutamine Synthetase antibody
Description	Rabbit polyclonal to Glutamine Synthetase
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Rat Predicted to work with: Chicken, Hamster, Cow, Dog, Human, Pig, Cynomolgus monkey 
Immunogen	Synthetic peptide corresponding to Mouse Glutamine Synthetase aa 357-373 (C terminal). Sequence: RTCLLNETGDEPFQYKN Database link: P09606 <div>  Run BLAST with  Run BLAST with </div>
Positive control	WB: Rat brain whole extract.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 0.0268% PBS
Purity	Ion Exchange Chromatography
Purification notes	Whole antiserum is fractionated and then further purified by ion-exchange chromatography to

provide the IgG fraction of antiserum that is essentially free of other rabbit serum proteins.

Clonality

Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab49873 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
WB		1/10000. Predicted molecular weight: 42 kDa.

Target

Function

This enzyme has 2 functions: it catalyzes the production of glutamine and 4-aminobutanoate (gamma-aminobutyric acid, GABA), the latter in a pyridoxal phosphate-independent manner (By similarity). Essential for proliferation of fetal skin fibroblasts.

Involvement in disease

Defects in GLUL are the cause of congenital systemic glutamine deficiency (CSGD) [MIM:610015]. CSGD is a rare developmental disorder with severe brain malformation resulting in multi-organ failure and neonatal death. Glutamine is largely absent from affected patients serum, urine and cerebrospinal fluid.

Sequence similarities

Belongs to the glutamine synthetase family.

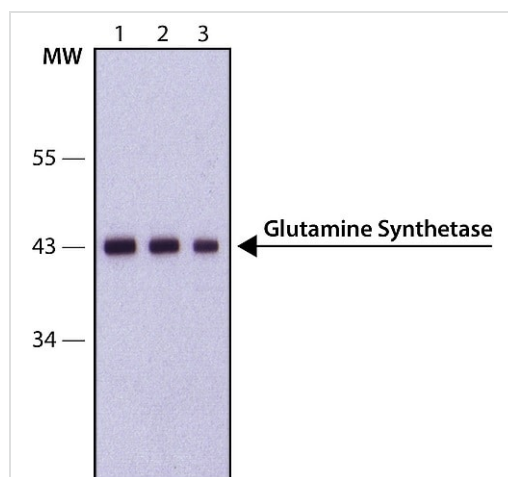
Developmental stage

Expressed during early fetal stages.

Cellular localization

Cytoplasm. Mitochondrion.

Images



Western blot - Anti-Glutamine Synthetase antibody (ab49873)

Lane 1 : Anti-Glutamine Synthetase antibody (ab49873) at 1/5000 dilution

Lane 2 : Anti-Glutamine Synthetase antibody (ab49873) at 1/10000 dilution

Lane 3 : Anti-Glutamine Synthetase antibody (ab49873) at 1/20000 dilution

All lanes : Rat brain whole extract

Secondary

All lanes : Goat Anti-Rabbit IgG-Peroxidase

Predicted band size: 42 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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