abcam

Product datasheet

Anti-Glutamine Synthetase antibody [EPR13022(B)] (HRP) ab199198

Recombinant RabMAb

1 Image

Overview

Product name	Anti-Glutamine Synthetase antibody [EPR13022(B)] (HRP)
Description	Rabbit monoclonal [EPR13022(B)] to Glutamine Synthetase (HRP)
Host species	Rabbit
Conjugation	HRP
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide within Human Glutamine Synthetase aa 250-350 (Cysteine residue). The exact sequence is proprietary. Database link: P15104
Positive control	WB: Human fetal liver lysate.
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

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. Store In the Dark. Store under desiccating conditions.
Storage buffer	pH: 7.40 Preservative: 0.1% Proclin Constituents: 30% Glycerol, PBS, 1% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR13022(B)
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab199198** in the following tested applications.

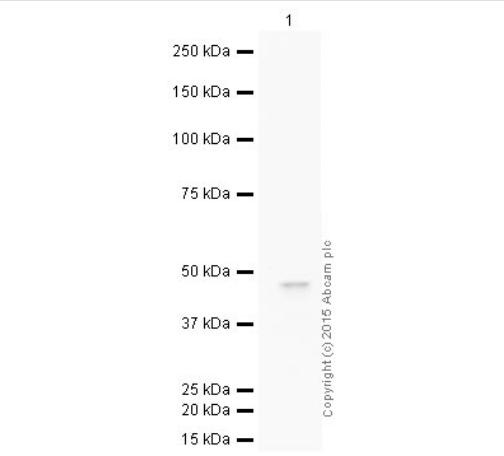
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2500. Detects a band of approximately 45 kDa (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 [EPR13022(B)] (HRP) (ab199198)

Anti-Glutamine Synthetase antibody [EPR13022(B)] (HRP) (ab199198) at 1/2500 dilution + Liver (Human) Tissue Lysate - fetal normal tissue at 10 µg

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 42 kDa
Observed band size: 45 kDa
why is the actual band size different from the predicted?

Exposure time: 20 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before

being incubated with 199198 overnight at 4°C. Antibody binding was visualised using ECL development solution ab133406.

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