


Product datasheet

Anti-Glutamine Synthetase antibody [6/Glutamine Synthetase] ab125724

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Overview

Product name	Anti-Glutamine Synthetase antibody [6/Glutamine Synthetase]
Description	Mouse monoclonal [6/Glutamine Synthetase] to Glutamine Synthetase
Host species	Mouse
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Sheep 
Immunogen	Full length protein, corresponding to amino acids 1-373 of Sheep Glutamine Synthetase.
Positive control	Human liver tissue; Human Hepatocellular carcinoma tissue.
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). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Buffer with protein carrier and preservative.
Purification notes	Purity >90% by SDS-PAGE.
Clonality	Monoclonal
Clone number	6/Glutamine Synthetase
Isotype	IgG2a

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab125724 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
IHC-P		1/150 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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.

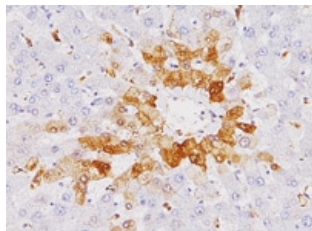
Developmental stage

Expressed during early fetal stages.

Cellular localization

Cytoplasm. Mitochondrion.

Images



ab125724 at 1/150 dilution staining Glutamine Synthetase in Paraffin-embedded Human liver tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glutamine Synthetase antibody [6/Glutamine Synthetase] (ab125724)

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

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