

Anti-Glutamine synthetase, mouse monoclonal (BS51)



BSH-2013-100 (0,1ml), BSH-2013-1 (1 ml)

Clonality:	Mouse monoclonal antibody
Clone:	BS51
Application:	IHC
Species Reactivity:	Human
Control tissues:	Liver, appendix
Buffer:	TRIS with 0.03% sodium azide, pH7,2
Storage:	Store at 4°C

Description

Glutamine synthetase is enzyme which catalyses the synthesis of glutamine from glutamate and ammonia in the liver tissue. In normal liver glutamine synthetase expressed in pericentral hepatocytes. Glutamine synthetase can be useful marker in hepatocellular carcinoma diagnostic with panel of other hepatocellular carcinoma markers.

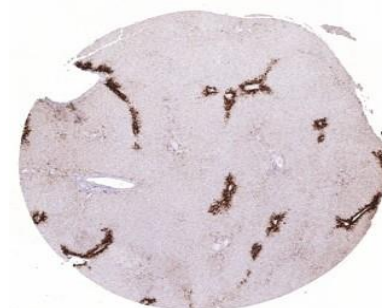
Protocol

After paraffin removing and rehydration:

1. Pre-treatment: PT-module HIER pH9 (20min at 98°C)
2. Wash (TBS-Tween in all washing steps)
3. Primary antibody: Glutamine synthetase 1:100 – 1:400, 30 min.
4. Wash
5. Peroxidase blocking (3% H₂O₂), 10 min.
6. Wash
7. One step HRP-polymer detection, 30 min
8. Wash x2
9. DAB-Substrate, 10 min
10. Aqua
11. CuSO₄ -post enhancement, 5 min
12. Aqua

Counter staining, Bluing, dehydration, clearing, and mounting.

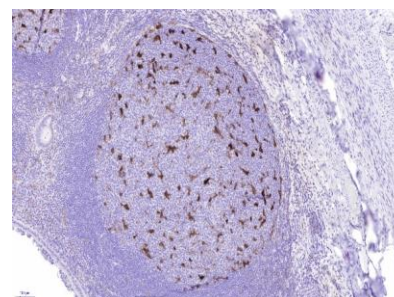
Dilution of concentrated antibody depends on the pre-treatment method and detection system used. Above protocol used in Optibodies evaluation and is meant as a reference. Final working dilution and protocol applied needs to be determined by the user always.



a)



b)



c)

Glutamine synthetase stained tissue sections. Liver (a, b) and appendix sections (c) have been stained using Glutamine synthetase optibody (Clone: BS51) with 1:200 dilution. Pericentral hepatocytes have strong granular cytoplasmic label in liver tissue sections (a, b) and faint cytoplasmic label was observed from follicular macrophages in appendix section (c).