10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AGXT Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6500c

Specification

AGXT Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P21549
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**96-125**

AGXT Antibody (Center) - Additional Information

Gene ID 189

Other Names
Serine--pyruvate aminotransferase, SPT, Alanine--glyoxylate aminotransferase, AGT, AGXT, AGT1, SPAT

Target/Specificity
This AGXT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 96-125 amino acids from the Central region of human AGXT.

Dilution
WB~~1:1000
IHC-P~~1:25
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
AGXT Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

AGXT Antibody (Center) - Protein Information

Name AGXT (HGNC:341)

Synonyms AGT1, SPAT

Function Peroxisomal aminotransferase that catalyzes the transamination of glyoxylate to glycine and contributes to the glyoxylate detoxification (PubMed:10960483, PubMed:12777626, PubMed:24055001, PubMed:23229545, PubMed:26149463). Also catalyzes the transamination between L-serine and pyruvate and contributes to gluconeogenesis from the L-serine metabolism (PubMed:10347152).

Cellular Location
Peroxisome

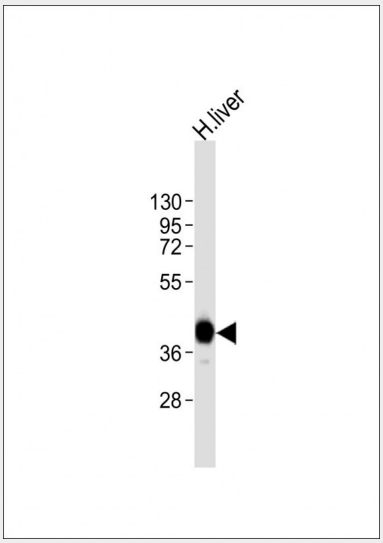
Tissue Location
Liver.

AGXT Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AGXT Antibody (Center) - Images



Anti-AGXT Antibody (Center)at 1:8000 dilution + human liver lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 43 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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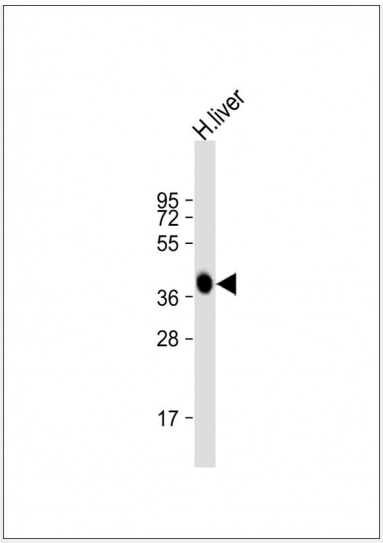
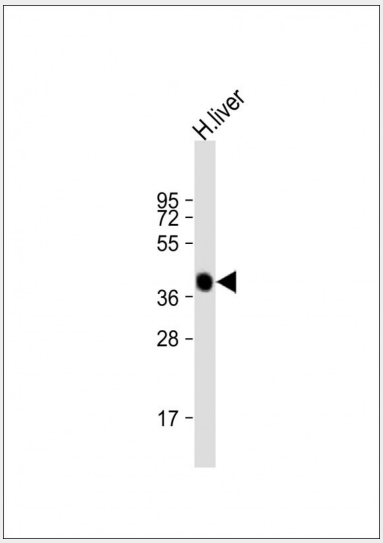


Anti-AGXT Antibody (Center)at 1:2000 dilution + human liver lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 43 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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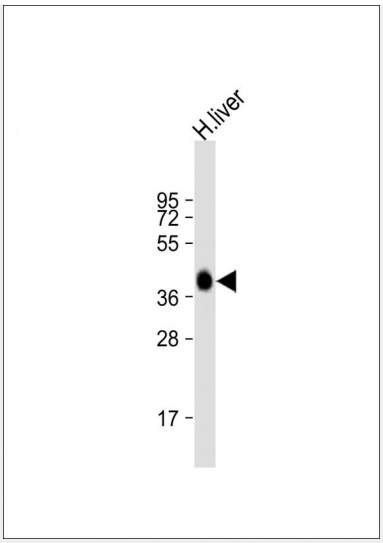

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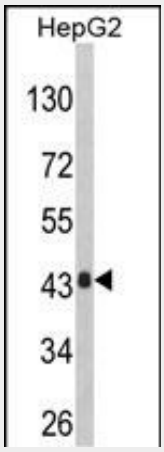
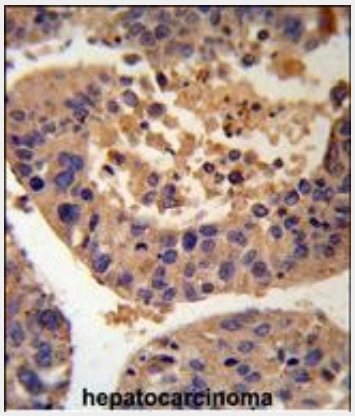


Western blot analysis of AGXT Antibody (Center) (Cat. #AP6500c) in HepG2 cell line lysates (35ug/lane). AGXT (arrow) was detected using the purified Pab.(8ug/ml)



AGXT Antibody (Center) (RB18848) IHC analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the AGXT Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

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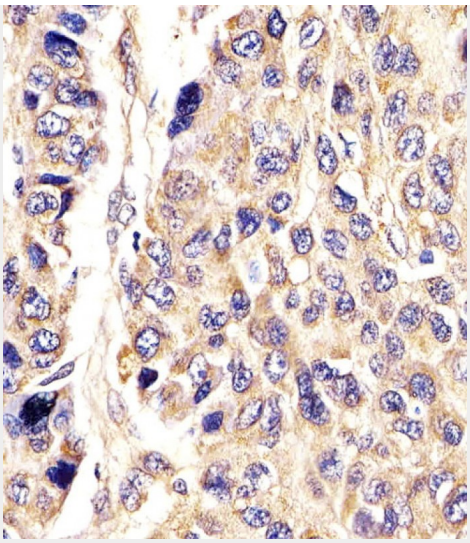
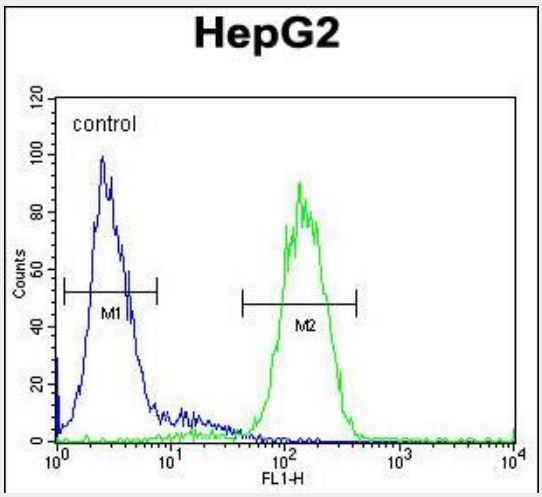


AP6500c staining AGXT in Human hepatic carcinoma tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



AGXT Antibody (Center) (Cat. #AP6500c) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

AGXT Antibody (Center) - Background

AGXT is expressed only in the liver and protein is localized mostly in the peroxisomes, where it is involved in glyoxylate detoxification.

AGXT Antibody (Center) - References

Cellini,B., J. Biol. Chem. 284 (13), 8349-8358 (2009)
Bertoldi,M., Biochim. Biophys. Acta 1784 (9), 1356-1362 (2008)