

AGXT Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6500c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P21549
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18848
Calculated MW	43010
Antigen Region	96-125

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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.

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:[23229545](#), PubMed:[24055001](#), 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.

Background

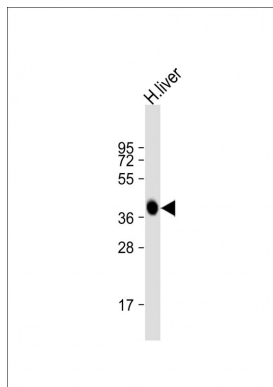
AGXT is expressed only in the liver and protein is localized mostly in the peroxisomes, where it is involved in glyoxylate detoxification.

References

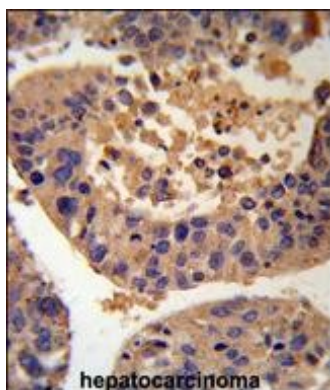
Cellini,B., J. Biol. Chem. 284 (13), 8349-8358 (2009)

Bertoldi,M., Biochim. Biophys. Acta 1784 (9), 1356-1362 (2008)

Images

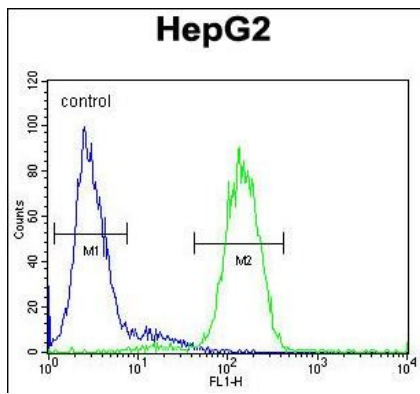


Anti-AGXT Antibody (Center) at 1:2000 dilution + human liver lysates. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 43 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



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.

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.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.