

## Mouse Anti-Human AGXT Monoclonal Antibody

Cat. No. CRP2485 Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	Mouse
<b>Antigen Information</b>	The AGXT gene provides instructions for making a liver enzyme called alanine-glyoxylate aminotransferase. Inside liver cells, this enzyme is found in peroxisomes, structures that contain many different enzymes used to produce energy and the basic materials important for cellular activities. AGXT converts a compound called glyoxylate to glycine, an amino acid that is a building block for making enzymes and other proteins.
<b>Immunogen</b>	Recombinant AGXT (330-392aa) purified from E. coli.
<b>Isotype</b>	Mouse IgG2b heavy chain and light chain.
<b>Clone</b>	Anti-human AGXT mAb, clone AT2T4, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human AGXT protein.
<b>Concentration</b>	1mg/ml.
<b>Form</b>	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide.
<b>Application</b>	ELISA, Immunofluorescence.

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<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>Usage</b>	The antibody has been tested by ELISA and Immunofluorescence analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Immunofluorescence analysis is 1:500 ~ 1000. Recommended starting dilution is 1:500.
<b>Immunofluorescence Analysis</b>	Immunofluorescence of human HeLa cells stained with PI (Red) and monoclonal anti-AGXT antibody (1:500) with Alexa 488 (Green).

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">AGXT alanine-glyoxylate aminotransferase [ Homo sapiens ]</a>
<b>Synonyms</b>	alanine-glyoxylate aminotransferase; AGT; PH1; SPT; AGT1; SPAT; TLH6; AGXT1; AGXT; serine--pyruvate aminotransferase; serine-pyruvate aminotransferase; serine:pyruvate aminotransferase; alanine--glyoxylate aminotransferase; L-alanine: glyoxylate aminotransferase 1; hepatic peroxisomal alanine:glyoxylate aminotransferase; EC 2.6.1.51,EC 2.6.1.44; Alanine--glyoxylate aminotransferase
<b>Gene ID</b>	<a href="#">189</a>
<b>mRNA Refseq</b>	<a href="#">NM_000030</a>
<b>Protein Refseq</b>	<a href="#">NP_000021</a>
<b>MIM</b>	<a href="#">604285</a>
<b>UniProt ID</b>	<a href="#">P21549</a>

<b>Chromosome Location</b>	2q36-q37
<b>Pathway</b>	Alanine, aspartate and glutamate metabolism; Glycine, serine and threonine metabolism; Metabolic pathways; Peroxisome
<b>Function</b>	alanine-glyoxylate transaminase activity; amino acid binding; protein binding; protein homodimerization activity; pyridoxal phosphate binding; serine-pyruvate transaminase activity; transferase activity

**PDB rendering based on 1h0c.**



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