

Mouse Anti-Human AGXT Monoclonal Antibody

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

SPECIFICATION

Product Overview

Species	Human
Source	Mouse
Antigen Information	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.
Immunogen	Recombinant AGXT (330-392aa) purified from E. coli.
Isotype	Mouse IgG2b heavy chain and light chain.
Clone	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.
Concentration	1mg/ml.
Form	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide.

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Application	ELISA, Immunofluorescence.
Storage	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.
Usage	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.
Immunofluorescence Analysis	Immunofluorescence of human HeLa cells stained with PI (Red) and monoclonal anti-AGXT antibody (1:500) with Alexa 488 (Green).

GENE INFORMATION

Gene Name	AGXT alanine-glyoxylate aminotransferase [Homo sapiens]
Synonyms	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
Gene ID	189
mRNA Refseq	NM_000030
Protein Refseq	NP_000021
MIM	604285

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UniProt ID	P21549
Chromosome Location	2q36-q37
Pathway	Alanine, aspartate and glutamate metabolism; Glycine, serine and threonine metabolism; Metabolic pathways; Peroxisome
Function	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.	