



# GPT2 Monoclonal Antibody

<b>Catalog No</b>	YP-mAb-03905
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	WB
<b>Gene Name</b>	GPT2
<b>Protein Name</b>	Alanine aminotransferase 2
<b>Immunogen</b>	Synthesized peptide derived from GPT2 . at AA range: 190-270
<b>Specificity</b>	GPT2 Monoclonal Antibody detects endogenous levels of GPT2 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-1:2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	GPT2; AAT2; ALT2; Alanine aminotransferase 2; ALT2; Glutamate pyruvate transaminase 2; GPT 2; Glutamic--alanine transaminase 2; Glutamic--pyruvic transaminase 2
<b>Observed Band</b>	50kD
<b>Cell Pathway</b>	mitochondrion,mitochondrial matrix,
<b>Tissue Specificity</b>	Expressed at high levels in muscle, adipose tissue, kidney and brain and at lower levels in the liver and breast.
<b>Function</b>	catalytic activity:L-alanine + 2-oxoglutarate = pyruvate + L-glutamate.,cofactor:Pyridoxal phosphate.,pathway:Amino-acid degradation; L-alanine degradation via transaminase pathway; pyruvate from L-alanine: step 1/1.,similarity:Belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family. Alanine aminotransferase subfamily.,subunit:Homodimer.,tissue specificity:Expressed at high levels in muscle, adipose tissue, kidney and brain and at lower levels in the liver and breast.,
<b>Background</b>	This gene encodes a mitochondrial alanine transaminase, a pyridoxal enzyme that catalyzes the reversible transamination between alanine and 2-oxoglutarate to generate pyruvate and glutamate. Alanine transaminases play roles in gluconeogenesis and amino acid metabolism in many tissues including skeletal muscle, kidney, and liver. Activating transcription factor 4 upregulates this gene



under metabolic stress conditions in hepatocyte cell lines. A loss of function mutation in this gene has been associated with developmental encephalopathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**