GPT2 Polyclonal Antibody

Catalog No	YP-Ab-03905
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	GPT2
Protein Name	Alanine aminotransferase 2
Immunogen	Synthesized peptide derived from GPT2 . at AA range: 190-270
Specificity	GPT2 Polyclonal Antibody detects endogenous levels of GPT2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GPT2; AAT2; ALT2; Alanine aminotransferase 2; ALT2; Glutamate pyruvate transaminase 2; GPT 2; Glutamic--alanine transaminase 2; Glutamic--pyruvic transaminase 2
Observed Band	50kD
Cell Pathway	mitochondrion,mitochondrial matrix,
Tissue Specificity	Expressed at high levels in muscle, adipose tissue, kidney and brain and at lower levels in the liver and breast.
Function	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.,
Background	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.

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