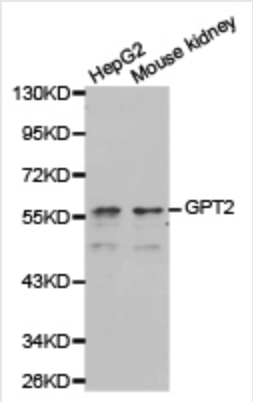
GPT2 Antibody – Rabbit

PRODUCT OVERVIEW

Product Name	GPT2, Antibody
Full Product Name	GPT2 Antibody
Product Gene Name	anti-GPT2 antibody
Product Synonym Names	ALT2
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity purification
Preparation and Storage	Store at-20 degree C or-80 degree C. Avoid freeze/thaw cycles.
Molecular Weight	58kDa
OMIM	138210
3D Structure	ModBase 3D Structure for Q8TD30
Immunogen	Fusion protein of human GPT2
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Product Categories/Family for anti-GPT2 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GPT2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-GPT2 antibody	WB: 1:500-1:1000 IHC: 1:50-1:100
Related Product Information for anti-GPT2 antibody	This gene encodes one of the two pyridoxal enzymes which catalyze a reversible transamination reaction to yield glutamate and pyruvate so these enzymes participate in amino acid metabolism and gluconeogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
Other Notes	Small volumes of anti-GPT2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GPT2 purchase	MBS8505618 is an antibody targeting GPT2. Also known as GPT2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-GPT2 antibody
Western blot analysis of extracts of variouscell lines, using GPT2 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPT2. It may not necessarily be applicable to this product.

NCBI GI #	215599424
NCBI GeneID	84706
NCBI Accession #	NP_001135938.1
UniProt Primary Accession #	Q8TD30
UniProt Secondary Accession #	Q8N9E2
UniProt Related Accession #	Q8TD30
GenBank Nucleotide #	NM_001142466.2
NCBI Official Full Name	alanine aminotransferase 2 isoform 2
NCBI Official Synonym Full Names	glutamic--pyruvic transaminase 2
NCBI Official Symbol	GPT2
NCBI Official Synonym Symbols	ALT2; GPT 2; MRT49
UniProt Protein Name	Alanine aminotransferase 2
UniProt Synonym Protein Names	Glutamate pyruvate transaminase 2; GPT 2; Glutamic--alanine transaminase 2; Glutamic--pyruvic transaminase 2
Protein Family	Glucose-6-phosphate/phosphate translocator
UniProt Gene Name	GPT2
UniProt Synonym Gene Names	AAT2; ALT2; ALT2; GPT 2
NCBI Protein Information	alanine aminotransferase 2
NCBI Summary for GPT2	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]
UniProt Comments for GPT2	Catalyzes the reversible transamination between alanine and 2-oxoglutarate to form pyruvate and glutamate.
Research Articles on GPT2	**1.** GPT2 reduced alpha-ketoglutarate level in cells leading to the inhibition of proline hydroxylase 2 (PHD2) activity involved in the regulation of HIF1alpha stability. Accumulation of HIF1alpha, resulting from GPT2-alpha-ketoglutarate-PHD2 axis, constitutively activates sonic hedgehog (Shh) signaling pathway.

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