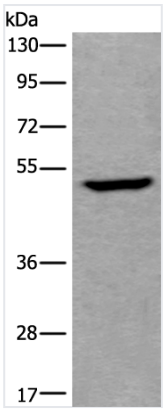
UMPS Antibody – Rabbit Polyclonal

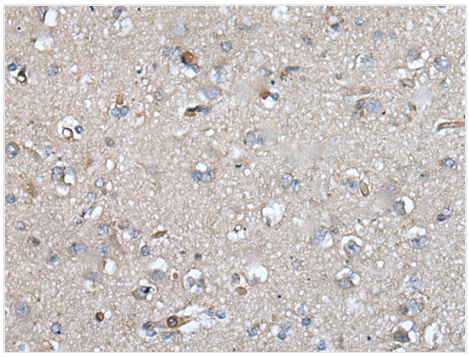
PRODUCT OVERVIEW

Product Name	UMPS, Polyclonal Antibody
Full Product Name	UMPS Polyclonal Antibody
Product Gene Name	anti-UMPS antibody
Product Synonym Names	ODC; OMPdecase; OPRT; OPRTase; Orotate phosphoribosyl transferase and orotidine 5' decarboxylase; Orotate phosphoribosyltransferase; Orotate phosphoribosyltransferase phosphoribosyltransferase; Orotidine 5' phosphate decarboxylase; Orotidine 5''-phosphate decarboxylase; RP11-71H17.9; UMP synthase; Umps; UMPS; Uridine 5' monophosphate synthase; Uridine monophosphate synthetase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.05% NaN3 and 40% Glycerol, pH7.4
Purity/Purification	Antigen Affinity Purification
Concentration	0.7mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	52 kDa
OMIM	258900
3D Structure	ModBase 3D Structure for P11172
Immunogen	Fusion protein of human UMPS
Conjugation	Unconjugated
Product Categories/Family for anti-UMPS antibody	Epigenetics and Nuclear Signaling; Metabolism
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-UMPS antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-UMPS antibody	WB: 1:500-1:2000 IHC: 1:30-1:150 ELISA: 1:5000-1:10000
Related Product Information for anti-UMPS antibody	This gene encodes a uridine 5'-monophosphate synthase. The encoded protein is a bifunctional enzyme that catalyzes the final two steps of the de novo pyrimidine biosynthetic pathway. The first reaction is carried out by the N-terminal enzyme orotate phosphoribosyltransferase which converts orotic acid to orotidine-5'-monophosphate. The terminal reaction is carried out by the C-terminal enzyme OMP decarboxylase which converts orotidine-5'-monophosphate to uridine monophosphate. Defects in this gene are the cause of hereditary orotic aciduria. Alternate splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-UMPS 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 UMPS purchase	MBS2562342 is an antibody targeting UMPS. Also known as UMPS Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-UMPS antibody
Western blot analysis of Human fetal liver tissue lysate using UMPS Polyclonal Antibody at dilution of 1:400



Immunohistochemistry (IHC) of anti-UMPS antibody
Immunohistochemistry of paraffin-embedded Human brain tissue using UMPS Polyclonal Antibody at dilution of 1:40(×200)

ADDITIONAL DETAILS

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

NCBI GI #	4507835
NCBI GeneID	7372
NCBI Accession #	NP_000364.1
NCBI Related Accession #	BC000364
UniProt Primary Accession #	P11172
UniProt Related Accession #	P11172
GenBank Nucleotide #	NP_000364.1
NCBI Official Full Name	uridine 5'-monophosphate synthase
NCBI Official Synonym Full Names	uridine monophosphate synthetase
NCBI Official Symbol	UMPS
NCBI Official Synonym Symbols	OPRT
UniProt Protein Name	Uridine 5'-monophosphate synthase
UniProt Synonym Protein Names	OMPdecase
Protein Family	Uridine 5'-monophosphate synthase
UniProt Gene Name	UMPS
UniProt Synonym Gene Names	UMP synthase; OPRT; OPRTase; ODC
UniProt Entry Name	UMPS_HUMAN
NCBI Protein Information	uridine 5'-monophosphate synthase
NCBI Summary for UMPS	This gene encodes a uridine 5'-monophosphate synthase. The encoded protein is a bifunctional enzyme that catalyzes the final two steps of the de novo pyrimidine biosynthetic pathway. The first reaction is carried out by the N-terminal enzyme orotate phosphoribosyltransferase which converts orotic acid to orotidine-5'-monophosphate. The terminal reaction is carried out by the C-terminal enzyme OMP decarboxylase which converts orotidine-5'-monophosphate to uridine monophosphate. Defects in this gene are the cause of hereditary orotic aciduria. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2010]

UniProt Comments for UMPS	UMPS: Defects in UMPS are the cause of orotic aciduria type 1 (ORAC1). A disorder of pyrimidine metabolism resulting in megaloblastic anemia and orotic acid crystalluria that is frequently associated with some degree of physical and mental retardation. A minority of cases have additional features, particularly congenital malformations and immune deficiencies. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 4.1.1.23; Transferase; Xenobiotic Metabolism - drug metabolism - other enzymes; Nucleotide Metabolism - pyrimidine; EC 2.4.2.10; Lyase Chromosomal Location of Human Ortholog: 3q13 Cellular Component: cytoplasm; cytosol; nucleus Molecular Function: orotate phosphoribosyltransferase activity; orotidine-5'-phosphate decarboxylase activity Biological Process: lactation; 'de novo' pyrimidine base biosynthetic process; pyrimidine base metabolic process; nucleobase, nucleoside and nucleotide metabolic process; UMP biosynthetic process; pyrimidine nucleoside biosynthetic process; female pregnancy Disease: Orotic Aciduria
Research Articles on UMPS	**1.** Partial UMPS-deficiency should be included in the differential diagnosis of mild orotic aciduria.
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