



Rabbit Anti-UMPS antibody

SL8110R

Product Name:	UMPS
Chinese Name:	尿昔磷酸合成酶抗体
Alias:	ODC; Uridine 5-monophosphate synthase; 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_HUMAN; Uridine 5' monophosphate synthase; Uridine monophosphate synthetase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,Sheep,Cynomolgus Monkey, Rhesus monkey
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	52kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human UMPS:351-450/480
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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]

Subunit:

Homodimer.

DISEASE:

Defects in UMPS are the cause of orotic aciduria type 1 (ORAC1) [MIM:258900]. 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.

Similarity:

In the N-terminal section; belongs to the purine/pyrimidine phosphoribosyltransferase family.

In the C-terminal section; belongs to the OMP decarboxylase family.

SWISS:

P11172

Gene ID:

7372

Database links:

[Entrez Gene: 460644](#) Chimpanzee

[Entrez Gene: 101124432](#) Gorilla

[Entrez Gene: 100070386](#) Horse

[Entrez Gene: 7372](#) Human

[Entrez Gene: 22247](#) Mouse

[Entrez Gene: 100173867](#) Orangutan

[Entrez Gene: 715664](#) Rhesus monkey

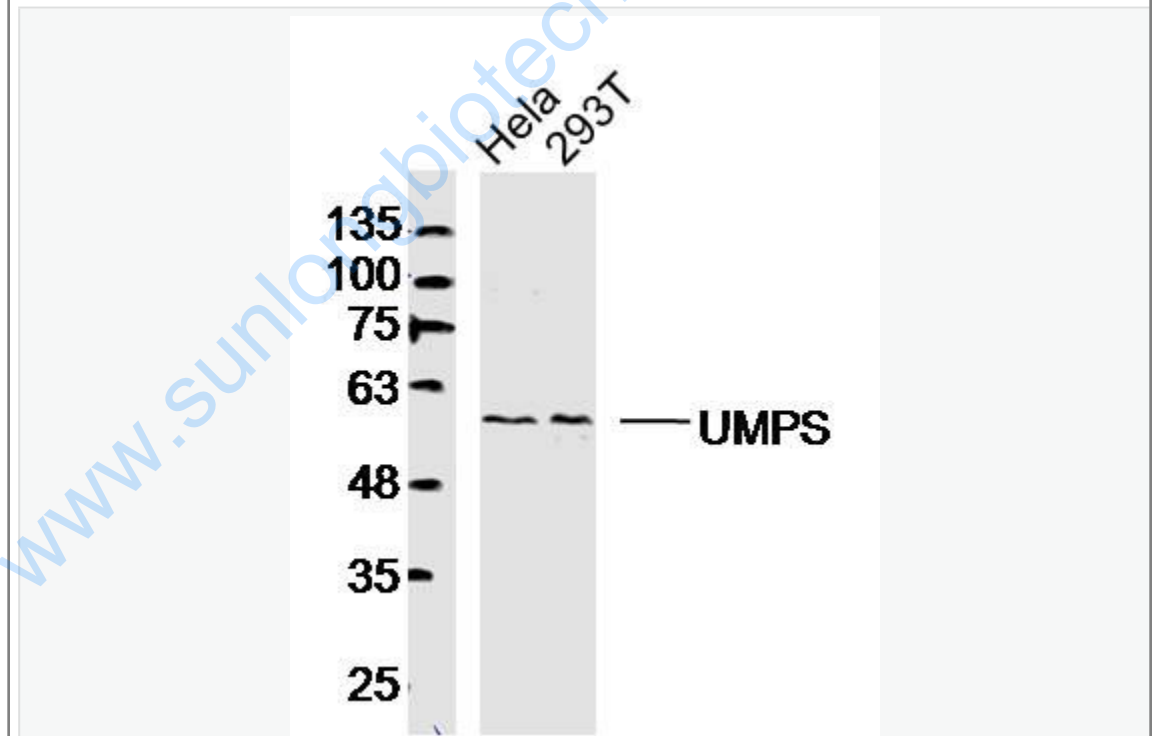
[Omim: 613891](#) Human

[SwissProt: P11172](#) Human
[SwissProt: P13439](#) Mouse
[SwissProt: Q5R514](#) Orangutan
[Unigene: 2057](#) Human
[Unigene: 13145](#) Mouse
[Unigene: 466951](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

HeLa(Human)Cell Lysate at 40 ug

293T (Human) Cell Lysate at 40 ug

Primary: Anti-UMPS(SL8110R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution

Predicted band size: 52kD

Observed band size: 52kD

www.sunlongbiotech.com