



Rabbit Anti-Human UMPS (a.a. 226-480) Polyclonal antibody (DPABH-05316)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Human UMPS
Immunogen	E. coli - derived recombinant Human UMPS (Ser226-Val480).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Purified by antigen affinity column.
Conjugate	Unconjugated
Applications	ELISA, IHC, WB ELISA: 1:4000-1:8000 IHC: 1:50-1:100 WB: 1:1000-1:4000
Format	Liquid
Size	50 µg, 100 µg
Buffer	0.01M PBS, pH 7.4, 50% Glycerol, 0.05% Proclin 300.
Preservative	0.05% Proclin 300
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8°C for frequent use. Store at -20 to -80°C for twelve months from the date of receipt.

BACKGROUND

Introduction

Uridine 5'-monophosphate synthase (UMPS) is a critical bifunctional enzyme in humans that catalyzes the final two steps of de novo pyrimidine biosynthesis, converting orotate into uridine monophosphate (UMP). It combines orotate phosphoribosyltransferase (OPRT) and orotidine-5'-phosphate decarboxylase (ODC) activities, crucial for RNA/DNA synthesis. Deficiencies cause hereditary orotic aciduria, a rare metabolic disorder.

Keywords

OMPdecase; OPRT; OPRTase; UMP synthase; ODC; Uridine 5'-monophosphate synthase; UMPS

GENE INFORMATION

UniProt ID

[P11172](#)