

UMPS Antibody

Catalog No: #43615

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Description

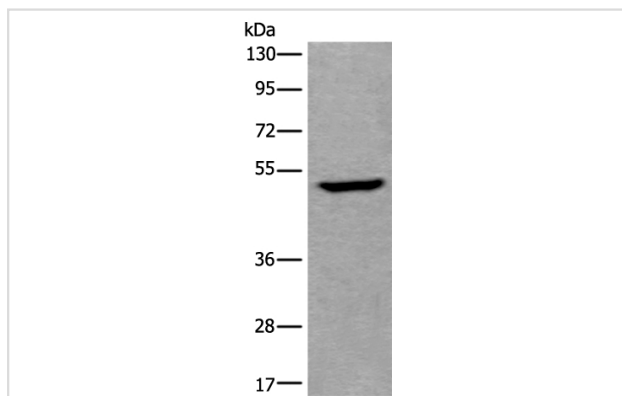
Product Name	UMPS Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification
Applications	IHC WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total UMPS protein.
Immunogen Type	protein
Immunogen Description	Fusion protein of human UMPS
Target Name	UMPS
Other Names	OPRT
Accession No.	Swiss-Prot#: P11172NCBI Gene ID: 7372
Uniprot	P11172
GeneID	7372;
Calculated MW	52kd
Concentration	1mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:200-1000

Immunohistochemistry: 1: 30-150

Images



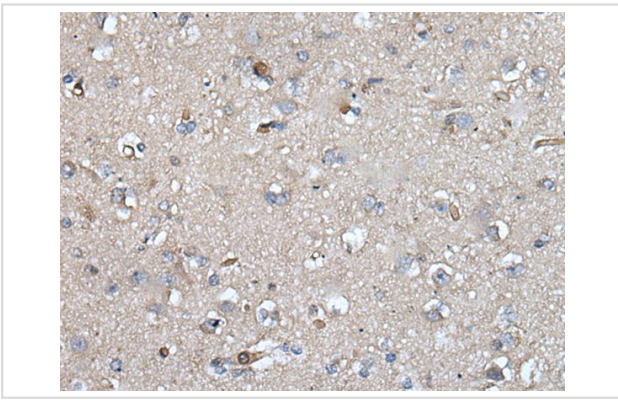
Gel: 8%SDS-PAGE

Lysate: 40 µg, Lane: Human fetal liver tissue lysate,

Primary antibody:UMPS antibody at dilution 1/400,

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution,

Exposure time: 30 seconds



The image on the left is immunohistochemistry of paraffin-embedded Human brain tissue using UMPS Antibody at dilution 1/40, on the right is treated with fusion protein. (Original magnification: x200)

Background

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.?

Note: This product is for in vitro research use only