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UPB1 Recombinant Rabbit mAb

Catalog # AP98705

Product Information

Application	WB, IHC-P, IHC-F, IF, IP
Primary Accession	Q9UBR1
Other Accession	Q9UBR1
Reactivity	Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	43166
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Background Descriptions	This gene encodes a protein that belongs to the CN hydrolase family. Beta-ureidopropionase catalyzes the last step in the pyrimidine degradation pathway. The pyrimidine bases uracil and thymine are degraded via the consecutive action of dihydropyrimidine dehydrogenase (DHPDH), dihydropyrimidinase (DHP) and beta-ureidopropionase (UP) to beta-alanine and beta-aminoisobutyric acid, respectively. UP deficiencies are associated with N-carbamyl-beta-amino aciduria and may lead to abnormalities in neurological activity. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	51733
Other Names	BUP1_HUMAN; UPB1; BUP-1; Beta-alanine synthase; N-carbamoyl-beta-alanine amidohydrolase; 3.5.1.6; BUP1; beta-ureidopropionase 1; ureidopropionase, beta; Beta-ureidopropionase
Dilution	WB=1:500-2000,IHC-P=1:50-200,IHC-F=1:50-200,IP=1:50-200,IF=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	UPB1
Synonyms	BUP1
Function	Catalyzes a late step in pyrimidine degradation (PubMed: 22525402, PubMed:24526388). Converts N-carbamoyl-beta-alanine (3-ureidopropanoate)

into beta-alanine, ammonia and carbon dioxide (PubMed:10415095, PubMed:10542323, PubMed:11508704, PubMed:22525402, PubMed:24526388, PubMed:29976570). Likewise, converts N-carbamoyl-beta-aminoisobutyrate (3-ureidoisobutyrate) into beta-aminoisobutyrate, ammonia and carbon dioxide (Probable).

Cellular Location Cytoplasm {ECO:0000250|UniProtKB:Q8H183}.

Tissue Location Detected in liver (at protein level).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.