



UPB1 Rabbit mAb

Catalog No	YP-rAb-17688
Isotype	IgG
Reactivity	Human
Applications	WB,IHC,IP
Gene Name	UPB1;BUP1
Protein Name	Beta-ureidopropionase;BUP-1;Beta-alanine synthase;N-carbamoyl-beta-alanine amidohydrolase;
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	WB 1:1000-5000; IHC 1:100-300; IP 1:50-100 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	UPB1;Beta-ureidopropionase;BUP-1;Beta-alanine synthase;N-carbamoyl-beta-alanine amidohydrolase;UPB1 ; BUP1 ; Beta-ureidopropionase ; BUP-1 ; Beta-alanine synthase ; N-carbamoyl-beta-alanine amidohydrolase ;BUP1
Observed Band	42kD
Calculated Molecular Weight	
Cell Pathway	Cytoplasm.
Tissue Specificity	Detected in liver (at protein level). {ECO:0000269 PubMed:22525402}.
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). {ECO:0000269 PubMed:10415095, ECO:0000269 PubMed:10542323, ECO:0000269 PubMed:11508704, ECO:0000269 PubMed:22525402, ECO:0000269 PubMed:24526388, ECO:0000269 PubMed:29976570, ECO:0000305 PubMed:22525402, ECO:0000305 PubMed:24526388}.

**Background**

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]

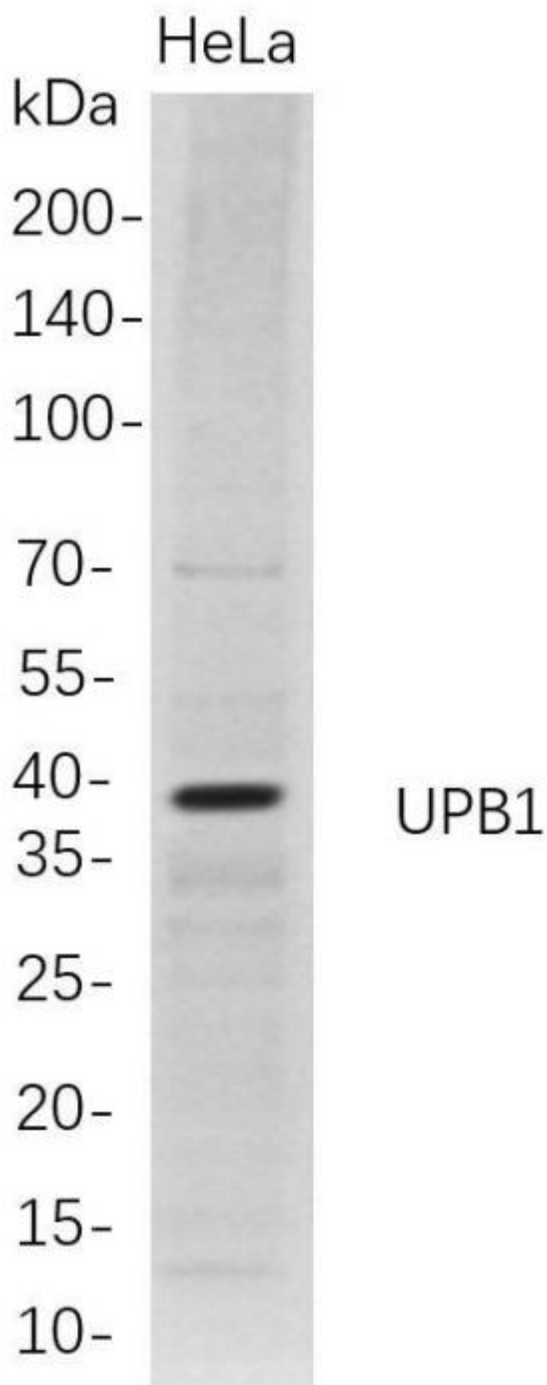
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.





Western Blot analysis of HeLa whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-UPB1 rabbit mAb. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody.

