



Datasheet for ABIN2775431
anti-UPB1 antibody (Middle Region)



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1 Image

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Overview

Quantity:	100 µL
Target:	UPB1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Zebrafish (Danio rerio), Horse, Cow, Guinea Pig, Rabbit, Goat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This UPB1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human UPB1
Sequence:	AVVISNSGAV LGKTRKNHIP RVGDFNESTY YMEGNLGHVP FQTQFGRIAV
Predicted Reactivity:	Cow: 100%, Dog: 100%, Goat: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against UPB1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

Target Details

Target:	UPB1
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Target Details

Alternative Name: [UPB1 \(UPB1 Products\)](#)

Background: UPB1 is 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. 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.

Alias Symbols: BUP1

Protein Size: 384

Molecular Weight: 42 kDa

Gene ID: 51733

NCBI Accession: [NM_016327](#), [NP_057411](#)

UniProt: [Q9UBR1](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 384 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

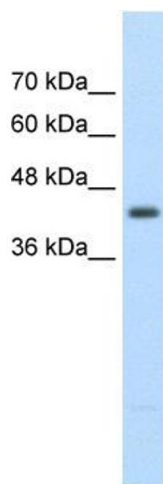
Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in: Sakamaki, Ishii, Sakata, Takemoto, Takagi, Takeuchi, Morishita, Takahashi, Nozawa, Shinoda, Chiba, Sugimoto, Saito, Tamate, Satou, Jung, Matsuoka, Koyamada, Sawasaki, Nagai, Ueno: "Dysregulation of a potassium channel, THIK-1, targeted by caspase-8 accelerates cell shrinkage." in: **Biochimica et biophysica acta**, Vol. 1863, Issue 11, pp. 2766-2783, (2016) ([PubMed](#)).

Images



Western Blotting

Image 1. WB Suggested Anti-UPB1 Antibody Titration: 2.5ug/ml Positive Control: Jurkat cell lysate