

For Research Use Only

# TMUB1 Polyclonal antibody

Catalog Number: 16638-1-AP



## Basic Information

**Catalog Number:**

16638-1-AP

**Size:**

280 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG9988

**GenBank Accession Number:**

BC000936

**GeneID (NCBI):**

83590

**UNIPROT ID:**

Q9BVT8

**Full Name:**

transmembrane and ubiquitin-like domain containing 1

**Calculated MW:**

26 kDa

**Observed MW:**

27 kDa, 24 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IF 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, WB, ELISA

**Species Specificity:**

human

**Positive Controls:**

WB : HuH-7 cells, L02 cells

IF : L02 cells,

## Background Information

Transmembrane and ubiquitin-like domain-containing protein 1 (TMUB1), also referred to as hepatocyte odd protein shuttling (HOPS), is a transmembrane ubiquitin-like protein that was originally identified in the regenerated liver. HOPS is a transmembrane protein released into the cell by an enzymatic cleavage. This allows HOPS to be shuttled from the nucleus to the cytoplasm and vice versa, depending on cell cycle and environmental stress conditions. HOPS cDNA expression gives rise to the translation of three different proteins with distinct molecular weights of 27, 24 and 21 kDa, respectively. The three isoforms of HOPS are differentially expressed depending on the tissue being examined. In the brain, the shortest isoform prevails over the other, whereas in the intestine the higher molecular weight isoform prevails among the other two. Indeed, HOPS shows a different concentration of the three isoforms, which can play different cell-dependent functions. The ratio between different isoforms may vary owing to physiopathological changes in the cell (PMID:32860479). 16638-1-AP can detect two bands and some literature also detected two bands (PMID:30610893, 29777440, 29967478)

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

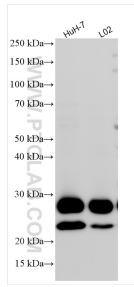
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

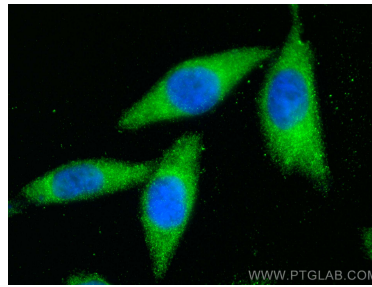
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16638-1-AP (TMUB1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed LO2 cells using TMUB1 antibody (16638-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).