### Catalog Number: 17430-1-AP

**MAGT1 Polyclonal antibody**

**Basic Information**

- **Catalog Number:** 17430-1-AP
- **Size:** 150μL, Concentration: 213 μg/ml by Bradford method using BSA as the standard.
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG11496

- **GenBank Accession Number:** BC060842
- **GeneID (NCBI):** 84061
- **Full Name:** magnesium transporter 1
- **Calculated MW:** 335 aa, 38 kDa
- **Observed MW:** 45-47 kDa
- **Purification Method:** Antigen affinity purification

**Recommended Dilutions:**
- **WB:** 1:500-1:2000
- **IHC:** 1:20-1:200
- **IF:** 1:10-1:100

**Applications**

- **Tested Applications:** IF, IHC, WB, ELISA
- **Cited Applications:** IF, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, rat

**Note—IHC:** suggested antigen retrieval with TE buffer pH 9.0; [*] Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Positive Controls:**
- **WB:** mouse cerebellum tissue, HeLa cells, mouse kidney tissue, mouse heart tissue, COLO 320 cells, HEK-293 cells, mouse colon tissue, HT-1080 cells
- **IHC:** human liver tissue, human skeletal muscle tissue, mouse brain tissue
- **IF:** HepG2 cells

**Background Information**

MAGT1 is a mammalian Mg2+-selective transporter being required for cellular magnesium uptake and vertebrate embryonic development. It possesses five putative transmembrane (TM) regions with a cleavage site, a N-glycosylation site, and a number of phosphorylation sites. Recently mutations in MAGT1 has been found to be associated with a novel X-linked human immunodeficiency. The MAGT1 protein was undetectable in the patients' cells by western blot or immunofluorescent cell surface staining. MAGT1 had been detected as 38 kDa (PMID: 18705540) or 45-47 kDa (PMID: 27383987) by western blot.

**Notable Publications**

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<th>Author</th>
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<tr>
<td>Shenglin Zhu</td>
<td>31511384</td>
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<td>Julie Brault</td>
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<td>Lin Lu</td>
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**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: 1 (888) 4PTGLAB (1-888-478-4522) [toll free in USA], or 1 (312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Mouse cerebellum lysates were subjected to SDS PAGE followed by western blot with 17430-1-AP (MAGT1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human liver using 17430-1-AP (MAGT1 antibody) at dilution of 1:50 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human liver using 17430-1-AP (MAGT1 antibody) at dilution of 1:50 (under 40x lens).

Immunofluorescent analysis of HepG2 cells, using 17430-1-AP and Rhodamine-labeled goat anti-rabbit IgG (red), blue pseudocolor = DAPI (fluorescent DNA dye).