

## OTOP1 Rabbit pAb

CatalogNo: YN7771

### Key Features

**Host Species**

- Rabbit

**Reactivity**

- Human, Mouse, Rat

**Applications**

- WB

**MW**

- 67kD (Calculated)

**Isotype**

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-2000**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human OTOP1**Specificity** This antibody detects endogenous levels of OTOP1 at Human, Mouse, Rat

### Target Information

**Gene name** OTOP1

**Protein Name**

Otopetrin-1

Organism	Gene ID	UniProt ID
Human	<a href="#">133060</a> ;	<a href="#">Q7RTM1</a> ;
Mouse	<a href="#">21906</a> ;	<a href="#">Q80VM9</a> ;
Rat	<a href="#">305427</a> ;	<a href="#">Q7M734</a> ;

**Cellular Localization**

Cell membrane ; Multi-pass membrane protein . Detected in the gelatinous membrane overlying the inner ear macular epithelium. .

**Function**

Proton-selective channel that specifically transports protons into cells . Proton channel activity is only weakly-sensitive to voltage (By similarity). Proton-selective channel activity is probably required in cell types that use changes in intracellular pH for cell signaling or to regulate biochemical or developmental processes . In the vestibular system of the inner ear, required for the formation and function of otoconia, which are calcium carbonate crystals that sense gravity and acceleration (By similarity). Probably acts by maintaining the pH appropriate for formation of otoconia (By similarity). Regulates purinergic control of intracellular calcium in vestibular supporting cells (By similarity). May be involved in sour taste perception in sour taste cells by mediating entry of protons within the cytosol (By similarity). Also involved in energy metabolism, by reducing adipose tissue inflammation and protecting from obesity-induced metabolic dysfunction (By similarity).

## | Validation Data

## | Contact information

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**OTOP1 Rabbit pAb**

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