

**OTOP1 polyclonal antibody**

Catalog: BS34916

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Proton channel OTOP1: Proton-selective ion channel . Biphasically modulated by acid and alkali, mediating proton influx and efflux in response to extracellular acid and base stimulation, respectively. Sour taste receptor, which carries inward currents in response to extracellular acidification (By similarity). Sensor for ammonium chloride (NH₄Cl) in taste receptor cells . NH₄Cl acts by increasing the intracellular pH, thereby generating a driving force for proton entry through OTOP1 channel . Might also participate in alkaline sensation. Plays a role in the regulation of Ca²⁺ flux in response to purigenic (ATP, ADP and UDP) stimuli, leading to increase in cytosolic Ca²⁺ due to influx of extracellular calcium. May play this role by inhibiting P2Y purinoceptor-mediated Ca²⁺ release in a Ca²⁺-dependent manner and promote an influx of Ca²⁺ in response to ATP. Through this mechanism and possibly o...

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~67.4 kDa

Swiss-Prot:

Q7RTM1

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of OTOP1 protein

DATA:

Western blot analysis of Factor II expression in K562 (A), A549 (B), LO2 (C), rat liver (D), mouse liver (E) whole cell lysates.

Immunohistochemical analysis of Factor II staining in human liver formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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