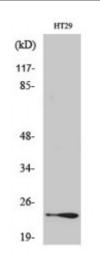


## Anti-Rab 7L1 antibody



**Description** Rabbit polyclonal to Rab 7L1.

Model STJ95304

**Host** Rabbit

**Reactivity** Human, Mouse, Rat

**Applications** ELISA, WB

**Immunogen** Synthesized peptide derived from human Rab 7L1

**Immunogen Region** 90-170 aa, Internal

Gene ID 8934

Gene Symbol RAB29

**Dilution range** WB 1:500-1:2000ELISA 1:20000

**Specificity** Rab 7L1 Polyclonal Antibody detects endogenous levels of Rab 7L1 protein.

**Tissue Specificity** Ubiquitous.

**Purification** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

**Note** For Research Use Only (RUO).

**Protein Name** Ras-related protein Rab-7L1 Rab-7-like protein 1 Ras-related protein Rab-29

Molecular Weight 73 kDa

**Clonality** Polyclonal

**Conjugation** Unconjugated

**Isotype** IgG

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Concentration** 1 mg/ml

**Storage Instruction** Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links <u>HGNC:9789OMIM:603949</u>

Alternative Names Ras-related protein Rab-7L1 Rab-7-like protein 1 Ras-related protein Rab-29

**Function** Rab GTPase key regulator in vesicle trafficking. Essential for maintaining the

integrity of the endosome-trans-Golgi network structure. Together with LRRK2, plays a role in the retrograde trafficking pathway for recycling proteins, such as mannose 6 phosphate receptor (M6PR), between lysosomes and the Golgi apparatus in a retromer-dependent manner. Regulates neuronal process morphology in the intact central nervous system (CNS). May play a role in the formation of typhoid toxin transport intermediates during Salmonella enterica serovar Typhi (S.Typhi) epithelial cell infection.

**Cellular Localization** Cell membrane Cytoplasm Cytoplasm, perinuclear region Golgi apparatus

Golgi apparatus, trans-Golgi network Vacuole Cytoplasm, cytoskeleton. Colocalizes with LRRK2 along tubular structures emerging from Golgi apparatus . Colocalizes with GM130 at the Golgi apparatus . Colocalizes with dynamic tubules emerging from and retracting to the Golgi apparatus .

Colocalizes with TGN46 at the trans-Golgi network (TGN). In Salmonella enterica serovar Typhi (S.Typhi) infected epithelial cells, is recruited and colocalized with both S.Typhi-containing vacuoles and dynamic tubules as

well as those emerging from the vacuole toward the cell periphery.

**Post-translational** In case of Salmonella enterica serovar Typhimurium (S.Typhimurium) **Modifications** infection, is proteolytically cleaved between Gly-41 and Val-42 by the Gts

infection, is proteolytically cleaved between Gly-41 and Val-42 by the GtgE viral protease encoded on the Gifsy-2 lysogen bacteriophage, which therefore prevents the recruitment of RAB29 to S.Typhimurium-containing vacuoles. In

contrast, no proteolytically cleavage is detected in S.Typhi-infected cells.

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