

TMEM24 Rabbit pAb

CatalogNo: YN8535

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB

MW

- 78kD (Calculated)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

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.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

Synthesized peptide derived from human TMEM24

Specificity

This antibody detects endogenous levels of TMEM24 at Human, Mouse

Target Information

Gene name

C2CD2L KIAA0285 TMEM24 DLNB23

Protein Name C2 domain-containing protein 2-like (Transmembrane protein 24)

Organism	Gene ID	UniProt ID
Human	9854;	O14523;
Mouse	71764;	Q80X80;

Cellular Localization Endoplasmic reticulum membrane ; Single-pass membrane protein . Cell membrane ; Peripheral membrane protein . Localizes to sites of contact between the endoplasmic reticulum and the cell membrane (PubMed:28209843). Embedded into the endoplasmic reticulum membrane via its N-terminal transmembrane domain and associates with cell membrane via its C-terminus (PubMed:28209843). In response to elevation of cytosolic Ca(2+), it is phosphorylated at its C-terminus and dissociates from the cell membrane and localizes to the reticular endoplasmic reticulum (PubMed:28209843). Reassociates with cell membrane upon dephosphorylation (PubMed:28209843). .

Function Lipid-binding protein that transports phosphatidylinositol, the precursor of phosphatidylinositol 4,5-bisphosphate (PI(4,5)P2), from its site of synthesis in the endoplasmic reticulum to the cell membrane . It thereby maintains the pool of cell membrane phosphoinositides, which are degraded during phospholipase C (PLC) signaling . Plays a key role in the coordination of Ca(2+) and phosphoinositide signaling: localizes to sites of contact between the endoplasmic reticulum and the cell membrane, where it tethers the two bilayers . In response to elevation of cytosolic Ca(2+), it is phosphorylated at its C-terminus and dissociates from the cell membrane, abolishing phosphatidylinositol transport to the cell membrane . Positively regulates insulin secretion in response to glucose: phosphatidylinositol transfer to the cell membrane allows replenishment of PI(4,5)P2 pools and calcium channel opening, priming a new population of insulin granules .

| Validation Data

| Contact information

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TMEM24 Rabbit pAb

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