

## TMEM173 (Phospho Ser365) Rabbit mAb (AR1981)

### Key Features

Host Species:	Rabbit
Reactivity:	Mouse
Applications:	WB,IF,ELISA
Isotype:	IgG,Kappa
MW:	42 kD (Calculated) 37 kD (Observed)

### Recommended Dilution Ratios

WB:	1:1000-5000
IF:	1:200-1000
ELISA:	1:5000-20000

### Storage

-15°C to -25°C/1 year (Do not lower than -25°C)

### Basic Information

Clonality	Monoclonal
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### Immunogen Information

Specificity	TMEM173 (Phospho Ser365) Antibody detects endogenous levels of Mouse TMEM173 protein only when phosphorylated at S365. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):LISGM
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### Target Information

Gene name	TMEM173 ERI5 MITA STING
Protein Name	Transmembrane protein 173

Organism	Gene ID	UniProt ID
Human	340061	Q86WV6
Mouse	72512	Q3TBT3

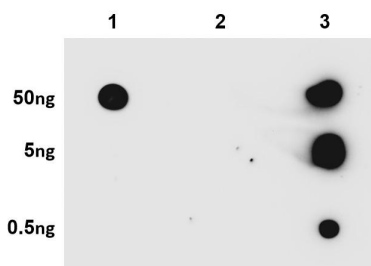
## Cellular Localization

Endoplasmic reticulum membrane ; Multi-pass membrane protein . Cytoplasm, perinuclear region . Endoplasmic reticulum-Golgi intermediate compartment membrane ; Multi-pass membrane protein . Golgi apparatus membrane ; Multi-pass membrane protein . Cytoplasmic vesicle, autophagosome membrane ; Multi-pass membrane protein . Mitochondrion outer membrane ; Multi-pass membrane protein . Cell membrane ; Multi-pass membrane protein . In response to double-stranded DNA stimulation, translocates from the endoplasmic reticulum through the endoplasmic reticulum-Golgi intermediate compartment and Golgi to post-Golgi vesicles, where the kinase TBK1 is recruited (PubMed:19433799, PubMed:30842659, PubMed:30842653, PubMed:29694889). Upon cGAMP-binding, translocates to the endoplasmic reticulum-Golgi intermediate compartment (ERGIC) in a process that is dependent on COPII vesicles; STING1-containing ERGIC serves as a membrane source for LC3 lipidation, which is a key step in autophagosome biogenesis (PubMed:30842662).

## Tissue specificity

Ubiquitously expressed. Expressed in skin endothelial cells, alveolar type 2 pneumocytes, bronchial epithelium and alveolar macrophages.

## Validation Data



The membrane was blotted with anti-TMEM173 (Phospho Ser365) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.

Lane 1: TMEM173 phospho Ser365 peptide

Lane 2: TMEM173 non-phospho peptide

Lane 3: Goat anti-Rabbit IgG

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