TMEM175 mouse mAb

Catalog No	YP-mAb-17919
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	TMEM175
Immunogen	Synthesized peptide derived from human TMEM175
Specificity	This antibody detects endogenous levels of TMEM175 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Transmembrane protein 175;hTMEM175;TMEM175
Observed Band	41-45 kDa, 54-60 kDa
Calculated Molecular Weight	504 aa, 56 kDa
Cell Pathway	Endosome membrane ; Multi-pass membrane protein . Lysosome membrane ; Multi-pass membrane protein .
Tissue Specificity	Widely expressed.
Function	Organelle-specific potassium channel specifically responsible for potassium conductance in endosomes and lysosomes . Forms a potassium-permeable leak-like channel, which regulates lumenal pH stability and is required for autophagosome-lysosome fusion . Constitutes the major lysosomal potassium channel . Constitutes the pore-forming subunit of the lysoK(GF) complex, a complex activated by extracellular growth factors . The lysoK(GF) complex is composed of TMEM175 and AKT (AKT1, AKT2 or AKT3), a major target of growth factor receptors: in the complex, TMEM175 channel is opened by conformational changes by AKT, leading to its activation . The lysoK(GF) complex is required to protect neurons against stress-induced damage .

Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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