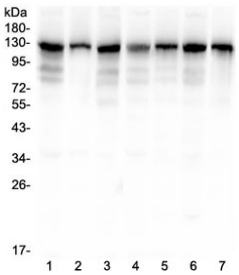
TMEM16A Antibody / DOG1 / ANO1 (RQ4536)

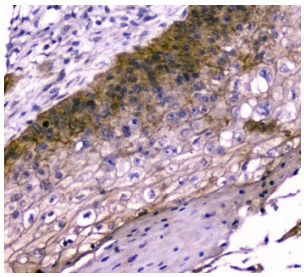
Catalog No.	Formulation	Size
RQ4536	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

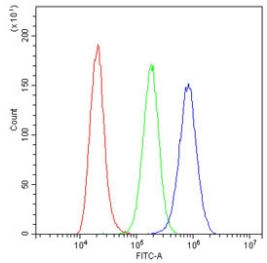
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q5XXA6
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This TMEM16A antibody is available for research use only.



Western blot testing of human 1) HeLa, 2) HepG2, 3) A549, 4) PANC-1, 5) SK-OV-3, 6) SGC-7901 and 7) COLO-320 lysate with TMEM16A antibody at 0.5ug/ml. Expected molecular weight 74-114 kDa but may be observed at higher molecular weights due to glycosylation.



IHC staining of FFPE human esophagus squama cancer with TMEM16A antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Flow cytometry testing of fixed and permeabilized human A431 cells with TMEM16A antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TMEM16A antibody.

Description

Anoctamin-1 (ANO1), also known as oral cancer overexpressed 2 (ORAOV2) or tumor-amplified and overexpressed sequence 2 (TMEM16A), is a protein that in humans is encoded by the ANO1 gene. This gene belongs to a family of membrane proteins containing 8 transmembrane segments, and it is mapped to 11q13.3. TMEM16A is a candidate calcium-activated chloride channel that mediates receptor-activated chloride currents in diverse physiologic processes, and it is thought to be responsible for a voltage-sensitive calcium-activated chloride current. Its overexpression was reported in esophageal squamous cell carcinoma and breast cancer progression Crofelemer, an antidiarrhoeal, inhibits this channel. TMEM16A has eight transmembrane domains, its pore is large and non-selective, allowing other negatively charged species to permeate.

Application Notes

Optimal dilution of the TMEM16A antibody should be determined by the researcher.

Immunogen

Amino acids QQIHKEKVLMVELFMREEQDKQQLLETWMEKERQKDE were used as the immunogen for the TMEM16A antibody.

Storage

After reconstitution, the TMEM16A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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