

TMEM16A Antibody

TMEM16A: Anoctamin 1, calcium activated chloride channel, ano1, DOG1, TAOS1, ORAOV2

CATALOG No.: 5419

BACKGROUND:

Calcium-activated chloride channels (CaCC) are present in many cell types and mediate physiological functions such as epithelial secretion, sensory signal transduction, and smooth muscle contraction. Subunits of these CaCC's include the transmembrane proteins TMEM16A and TMEM16B (1). TMEM16A is expressed in epithelial cells of the kidney and lung, pancreas, and sensory neurons and its mRNA is seen in foregut, airway epithelia, and tracheal smooth muscle; mice lacking TMEM16A fail to survive past ten days and show aerophagia and little weight gain (2,3). TMEM16A is also overexpressed or amplified in multiple cancers associated with poor survival such as oral cancers and gastrointestinal stromal tumors, suggesting the development of CaCC modulators may be a viable therapeutic strategy (3,4).

SOURCE:

Rabbit polyclonal TMEM16A antibody was raised against a 17 amino acid peptide from near the amino terminus of human TMEM16A (GenBank accession no. NP_060513).

STORAGE:

TMEM16A antibody is supplied as immunoaffinity chromatography purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.

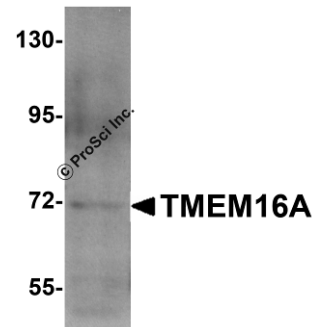
APPLICATION:

TMEM16A antibody can be used for detection of TMEM16A by Western blot at 1 - 2 µg/ml. (Optimal dilution should be determined by user.) A549 cell lysate can be used as positive control.

SPECIFICITY:

TMEM16A antibody is human and mouse reactive. At least three isoforms are known to exist. This antibody will not cross-react with TMEM16B.

For research use only.



Western blot analysis of TMEM16A in A549 cell lysate with TMEM16A antibody at 1 µg/ml.

RELATED PRODUCTS:

Blocking Peptide, Catalog No. **5419P**

A549 Cell Lysate, Catalog No. **1203**

TMEM16B Antibody, Catalog No. **5421**

REFERENCES:

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- Huang X, Godfrey TE, Gooding WE, et al. Comprehensive genome and transcriptome analysis of the 11q13 amplicon in human oral cancer and synteny to the 7F5 amplicon in murine oral carcinoma. *Genes Chromosomes Cancer* 2006; 45:10458-69.
- West RB, Corless CL, Chen X, et al. The novel marker, DOG1, is expressed ubiquitously in gastrointestinal stromal tumors irrespective of KIT or PDGRA mutation status. *Am. J. Pathol.* 2004; 165:107-13.

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