

ANO1 polyclonal antibody

Catalog: BS67727

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Anoctamin 1, also called DOG1 for discovered on gastrointestinal stromal tumors protein 1 or TMEM16A for Transmembrane Member 16A, is a plasma membrane calcium-activated chloride channel. It is essential for chloride secretion from epithelial tissues, and has been shown to be a specific marker for cells of Cajal, the pacemaker cells that control smooth muscle contraction. Anoctamin 1 knockout mice exhibit an altered gastric smooth muscle rhythmic contraction. More recently, research studies have identified Anoctamin 1 as a heat sensor in nociceptive neurons. Heat above 44 °C triggers anoctamin 1-dependent depolarization, contributing to the mediation of thermal nociception.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 112 kDa

Swiss-Prot:

Q5XXA6

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/2000), IF/ICC (1/50 - 1/200)

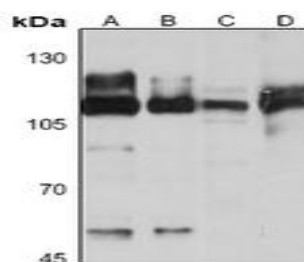
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

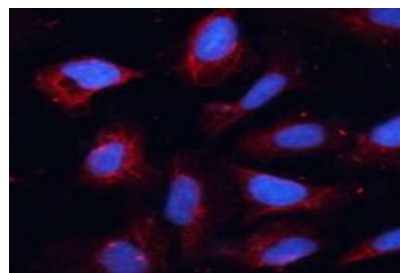
Specificity:

Recognizes endogenous levels of ANO1 protein.

DATA:



Western blot analysis of ANO1 expression in LO2 (A), HeLa (B), mouse lung (C), rat skeletal muscle (D) whole cell lysates.



Immunofluorescent analysis of ANO1 staining in U2OS cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Note:

For research use only, not for use in diagnostic procedure.

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