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ANO7 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9421a

Product Information

Application	WB, FC, E
Primary Accession	Q6IWH7
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24759
Calculated MW	105532
Antigen Region	106-135

Additional Information

Gene ID	50636
Other Names	Anoctamin-7, Dresden transmembrane protein of the prostate, D-TMPP, IPCA-5, New gene expressed in prostate, Prostate cancer-associated protein 5, Transmembrane protein 16G, ANO7, NGEP, PCANAP5, TMEM16G
Target/Specificity	This ANO7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 106-135 amino acids from the N-terminal region of human ANO7.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ANO7 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ANO7
Synonyms	NGEP, PCANAP5, TMEM16G
Function	Has calcium-dependent phospholipid scramblase activity; scrambles

	phosphatidylserine, phosphatidylcholine and galactosylceramide (By similarity). Does not exhibit calcium-activated chloride channel (CaCC) activity (PubMed:22075693). May play a role in cell-cell interactions (PubMed:17308099).
Cellular Location	[Isoform 1]: Cell membrane; Multi-pass membrane protein. Cell junction. Endoplasmic reticulum. Note=Concentrates at sites of cell-cell contact (PubMed:17308099). Shows an intracellular localization according to PubMed:22075693 and PubMed:20056604
Tissue Location	Specifically expressed in epithelial cells of the prostate (at protein level).

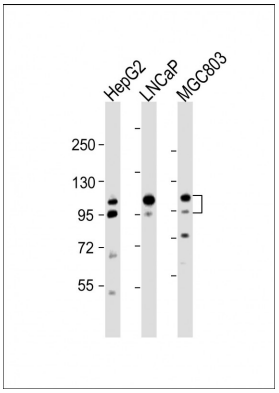
Background

ANO7 may act as a calcium-activated chloride channel. This protein May play a role in cell-cell interactions.

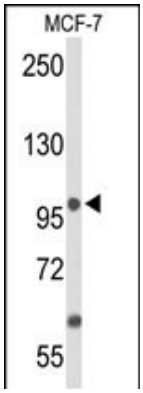
References

Cereda, V., et al. Cancer Immunol. Immunother. 59(1):63-71(2010)
Hartzell, H.C., et al. J. Physiol. (Lond.) 587 (PT 10), 2127-2139 (2009)
Das, S., et al. Cancer Res. 68(15):6306-6312(2008)
Kiessling, A., et al. Prostate 64(4):387-400(2005)
Katoh, M., et al. Int. J. Mol. Med. 14(4):759-764(2004)

Images

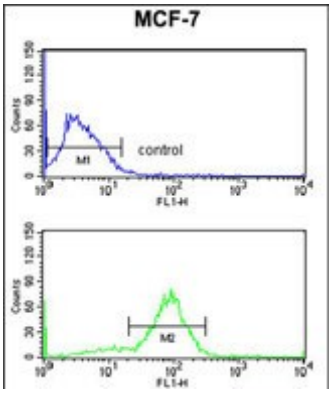


All lanes : Anti-ANO7 Antibody (N-term) at 1:2000 dilution Lane 1: HepG2 whole cell lysate Lane 2: LNCaP whole cell lysate Lane 3: MGC803 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 106 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of ANO7 Antibody (N-term) (Cat. #AP9421a) in MCF-7 cell line lysates (35ug/lane). ANO7 (arrow) was detected using the purified Pab.

ANO7 Antibody (N-term)(Cat. #AP9421a) flow cytometry analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.