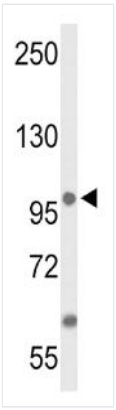
ANO7 Antibody – Rabbit Polyclonal

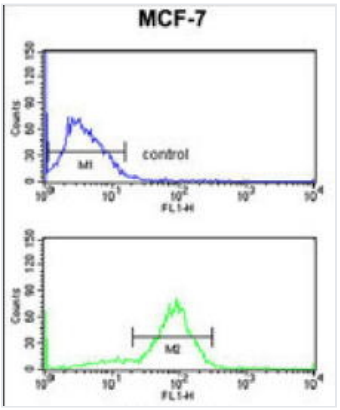
PRODUCT OVERVIEW

Product Name	ANO7, Polyclonal Antibody
Full Product Name	ANO7, NT (ANO7, NGEP, PCANAP5, TMEM16G, Anoctamin-7, Dresden transmembrane protein of the prostate, IPCA-5, New gene expressed in prostate, Prostate cancer-associated protein 5, Transmembrane protein 16G) (MaxLight 550)
Product Gene Name	anti-ANO7 antibody
Product Synonym Names	ANO7; NGEP; PCANAP5; TMEM16G; Anoctamin-7; Dresden transmembrane protein of the prostate; IPCA-5; New gene expressed in prostate; Prostate cancer-associated protein 5; Transmembrane protein 16G
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ANO7.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	105,532 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (242127924..242164791). Location: 2q37.3
OMIM	605096
3D Structure	ModBase 3D Structure for Q6IWH7
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 106-135 in the N-terminal region of human ANO7, UniProt Accession #Q6IWH7.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-ANO7 antibody	Antibodies; Transmembrane Proteins
Applications Tested/Suitable for anti-ANO7 antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-ANO7 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-ANO7 antibody	ANO7 may act as a calcium-activated chloride channel. This protein May play a role in cell-cell interactions.

Product References and Citations for anti-ANO7 antibody	1. Cereda, V., et al. Cancer Immunol. Immunother. 59(1):63-71(2010). 2. Hartzell, H.C., et al. J. Physiol. (Lond.) 587 (PT 10), 2127-2139 (2009). 3. Das, S., et al. Cancer Res. 68(15):6306-6312(2008). 4. Kiessling, A., et al. Prostate 64(4):387-400(2005). 5. Katoh, M., et al. Int. J. Mol. Med. 14(4):759-764(2004).
Other Notes	Small volumes of anti-ANO7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ANO7 purchase	MBS6273825 is an antibody targeting ANO7. Also known as ANO7, NT (ANO7, NGEP, PCANAP5, TMEM16G, Anoctamin-7, Dresden transmembrane protein of the prostate, IPCA-5, New gene expressed in prostate, Prostate cancer-associated protein 5, Transmembrane protein 16G) (MaxLight 550). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ANO7 antibody
Western Blot analysis in MCF-7 cell line lysates (35ug/lane) usingMBS6005848. ANO7 (arrow) was detected using the purified Pab.



Flow Cytometry (FC/FACS) of anti-ANO7 antibody
Flow Cytometry analysis of MCF-7 cells using MBS6005848 (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ANO7. It may not necessarily be applicable to this product.

NCBI GI #	48717269
NCBI GeneID	50636
NCBI Accession #	NP_001001666.1
UniProt Primary Accession #	Q6IWH7
UniProt Secondary Accession #	Q6IWH6
UniProt Related Accession #	Q6IWH7
GenBank Nucleotide #	NM_001001666.3
NCBI Official Full Name	anoctamin-7 isoform NGEP-short
NCBI Official Synonym Full Names	anoctamin 7
NCBI Official Symbol	ANO7
NCBI Official Synonym Symbols	NGEP; DTMPP; IPCA5; D-TMPP; IPCA-5; PCANAP5; TMEM16G; PCANAP5L
UniProt Protein Name	Anoctamin-7
UniProt Synonym Protein Names	Dresden transmembrane protein of the prostate; D-TMPP; IPCA-5; New gene expressed in prostate; Prostate cancer-associated protein 5; Transmembrane protein 16G
Protein Family	Anoctamin
UniProt Gene Name	ANO7
UniProt Synonym Gene Names	NGEP; PCANAP5; TMEM16G; D-TMPP

UniProt Entry Name	ANO7_HUMAN
NCBI Protein Information	anoctamin-7; transmembrane protein 16G; prostate cancer associated protein 5; Dresden-transmembrane protein of the prostate
NCBI Summary for ANO7	This prostate-specific gene encodes a cytoplasmic protein, as well as a polytopic membrane protein which may serve as a target in prostate cancer diagnosis and immunotherapy. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2011]
UniProt Comments for ANO7	ANO7: May act as a calcium-activated chloride channel. May play a role in cell-cell interactions. Belongs to the anoctamin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transporter, ion channel; Channel, chloride; Calcium-binding; Membrane protein, integral; Transporter; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 2q37.3 Cellular Component: endoplasmic reticulum; integral to membrane; plasma membrane; intracellular; nucleus; cytosol; cell junction Molecular Function: phospholipid scramblase activity; intracellular calcium activated chloride channel activity Biological Process: chloride transport; lipid transport; transmembrane transport
Research Articles on ANO7	**1.** NGEP is a potential target for T cell-mediated immunotherapy of prostate cancer.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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