ANO5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ANO5, Polyclonal Antibody
Full Product Name	ANO5, CT (Anoctamin-5, Transmembrane protein 16E, Gnathodiaphyseal dysplasia 1 protein, TMEM16E, GDD1, ANO5) (MaxLight 750)
Product Gene Name	anti-ANO5 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography followed by Peptide Affinity Chromatography
Specificity	Recognizes human ANO5. Species Crossreactivity: mouse
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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	107,188 Da
3D Structure	ModBase 3D Structure for Q75V66
Immunogen	KLH-conjugated synthetic peptide corresponding to a portion of amino acids within aa798-828 in the C-terminal region of human ANO5
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-ANO5 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-ANO5 antibody	Immunohistochemistry (IHC) Paraffin, FLISA, Western Blot (WB)
Application Notes for anti-ANO5 antibody	IHC-P: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-ANO5 antibody	MBS6463283 is an antibody targeting ANO5. Also known as ANO5, CT (Anoctamin-5, Transmembrane protein 16E, Gnathodiaphyseal dysplasia 1 protein, TMEM16E, GDD1, ANO5) (MaxLight 750). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-ANO5 antibody	1. Katoh, M. et.al., Am. J. Hum. Genet. 75(5), 927-928 (2004). 2. Tsutsumi, S., et.al., Am. J. Hum. Genet. 74(6), 1255-1261 (2004).
Other Notes	Small volumes of anti-ANO5 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ANO5. It may not necessarily be applicable to this product.

NCBI GI #	218081589
NCBI GeneID	203859
NCBI Accession #	NP_001136121.1
UniProt Primary Accession #	Q75V66
UniProt Related Accession #	Q75V66
GenBank Nucleotide #	NM_001142649.1
NCBI Official Full Name	anoctamin-5 isoform b
NCBI Official Synonym Full Names	anoctamin 5
NCBI Official Symbol	ANO5
NCBI Official Synonym Symbols	GDD1; LGMD2L; LGMDR12; TMEM16E
UniProt Protein Name	Anoctamin-5
UniProt Synonym Protein Names	Gnathodiaphyseal dysplasia 1 protein; Transmembrane protein 16E
Protein Family	Anoctamin
UniProt Gene Name	ANO5
UniProt Synonym Gene Names	GDD1; TMEM16E
NCBI Protein Information	anoctamin-5
NCBI Summary for ANO5	This gene encodes a member of the anoctamin family of transmembrane proteins. The encoded protein is likely a calcium activated chloride channel. Mutations in this gene have been associated with gnathodiaphyseal dysplasia. Alternatively spliced transcript variants have been described. [provided by RefSeq, Nov 2009]
UniProt Comments for ANO5	Does not exhibit calcium-activated chloride channel (CaCC) activity.
Research Articles on ANO5	**1.** A heterozygous mutation in the ANO5 gene c.1067G > A (p.Cys356Tyr) was identified in both affected individuals in a Russian family with giant cementoma and bone fractures consistent with a diagnosis of gnathodiaphyseal dysplasia.
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