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ANO5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8580B

Product Information

Application	WB, IHC-P, E
Primary Accession	Q75V66
Reactivity	Human, Mouse
Predicted	Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	107188
Antigen Region	792-819

Additional Information

Gene ID	203859
Other Names	Anoctamin-5, Gnathodiaphyseal dysplasia 1 protein, Transmembrane protein 16E, ANO5, GDD1, TMEM16E
Target/Specificity	This ANO5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 792-819 amino acids from the C-terminal region of human ANO5.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	ANO5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ANO5
Synonyms	GDD1, TMEM16E
Function	Plays a role in plasma membrane repair in a process involving annexins (PubMed:33496727). Does not exhibit calcium-activated chloride channel

(CaCC) activity.

Cellular Location Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Colocalized with CALR/calreticulin (PubMed:15124103). Shows an intracellular localization according to PubMed:22075693.

Tissue Location Highly expressed in brain, heart, kidney, lung, and skeletal muscle. Weakly expressed in bone marrow, fetal liver, placenta, spleen, thymus, osteoblasts and periodontal ligament cells

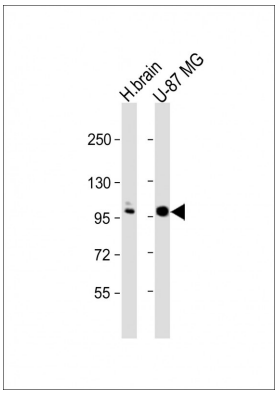
Background

ANO5 is a member of the anoctamin family of transmembrane proteins. This protein is likely a calcium activated chloride channel.

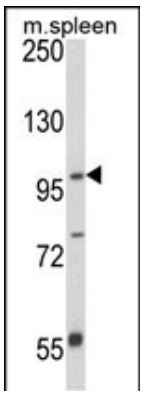
References

Katoh,M. et.al., Am. J. Hum. Genet. 75 (5), 927-928 (2004)
Tsutsumi,S., et.al., Am. J. Hum. Genet. 74 (6), 1255-1261 (2004)

Images

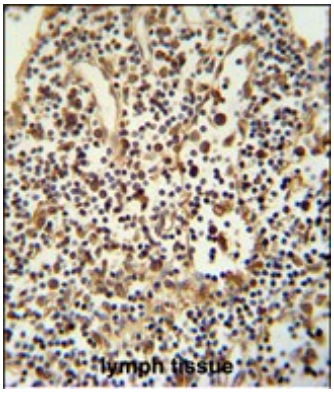


All lanes : Anti-ANO5 Antibody (C-term) at 1:1000 dilution Lane 1: human brain lysate Lane 2: U-87 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 107 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of ANO5 Antibody (C-term) (Cat. #AP8580b) in mouse spleen tissue lysates (35ug/lane). ANO5 (arrow) was detected using the purified Pab.

ANO5 Antibody (C-term) (Cat. #AP8580b) immunohistochemistry analysis in formalin fixed and paraffin embedded human lymph tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of theANO5 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Citations

- Genetic disruption of Ano5 in mice does not recapitulate human ANO5-deficient muscular dystrophy.
- A novel ANO5 splicing variant in a LGMD2L patient leads to production of a truncated aggregation-prone Ano5 peptide.

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