

For Research Use Only

# TMEM16A/DOG1 Polyclonal antibody



Catalog Number: 12652-1-AP

8 Publications

## Basic Information

<b>Catalog Number:</b> 12652-1-AP	<b>GenBank Accession Number:</b> BC027590	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 350 µg/ml by Nanodrop and 240 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 55107	<b>Recommended Dilutions:</b> IHC 1:250-1:1000 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q5XXA6	
<b>Isotype:</b> IgG	<b>Full Name:</b> anoctamin 1, calcium activated chloride channel	
<b>Immunogen Catalog Number:</b> AG3320	<b>Calculated MW:</b> 986 aa, 114 kDa	
	<b>Observed MW:</b> 114 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, ELISA	<b>Positive Controls:</b> IHC : human stomach cancer tissue, IF : human lung cancer tissue,
<b>Cited Applications:</b> WB, IF, IHC	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, rat, mouse	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

ANO1 also named as DOG1, ORAOV2, TAOS2 and TMEM16A, acts as a calcium-activated chloride channel. It is required for normal tracheal development. ANO1 (or DOG1) is used as an aid in the identification and diagnosis of gastrointestinal stromal tumors (GIST) within the context of an antibody panel, the patient's clinical history, and other diagnostic tests evaluated by a qualified pathologist. The immunogen is the C-terminal of ANO1. This antibody can recognize isoform1 and isoform2 of human ANO1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Dominika A Bijos	25181534	PLoS One	IF
Jingru Sui	32472021	Cell Death Dis	
Yumi Harada	34246954	Biomed Pharmacother	IHC

## Storage

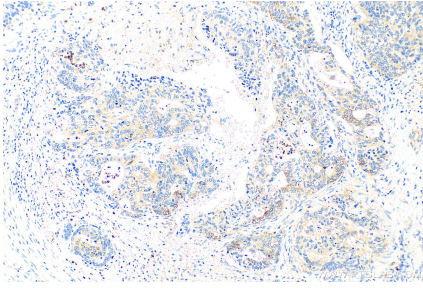
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

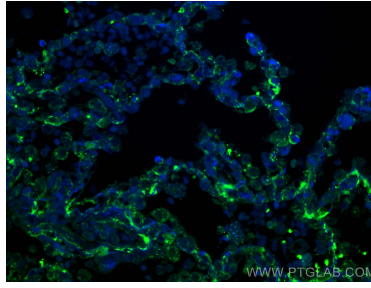
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 12652-1-AP (TMEM16A/DOG1 antibody) at dilution of 1:500 (under 10x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human lung cancer tissue using TMEM16A/DOG1 antibody (12652-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).