# DOG1 Antibody (TMEM16A) (R31414)

| Catalog No. | Formulation | Size |
|---|---|---|
| R31414 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

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|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal |
| **UniProt** | Q5XXA6 |
| **Applications** | Western blot: 0.5-1ug/ml |
| **Limitations** | This DOG1 antibody is available for research use only. |




Western blot testing of DOG1 antibody and Lane 1) rat liver; 2) rat skeletal muscle lysate. Expected molecular weight 74-114 kDa but may be observed at higher molecular weights due to glycosylation.

## Description

Anoctamin-1 (ANO1), also known as oral cancer overexpressed 2 (ORAOV2), Tumor-amplified and overexpressed sequence 2 (TMEM16A), and Discovered on gastrointestinal stromal tumors protein 1 (DOG1) is a protein that in humans is encoded by the ANO1 gene. This gene belongs to a family of membrane proteins containing 8 transmembrane segments, and it is mapped to 11q13.3. ANO1 is a candidate calcium-activated chloride channel that mediates receptor-activated chloride currents in diverse physiologic processes, and it is though to be responsible for a voltage-sensitive calcium-activated chloride current. Its overexpression was reported in esophageal squamous cell carcinoma and breast cancer progression Crofelemer, an antidiarrhoeal, inhibits this channel. ANO1/DOG1 has eight transmembrane domains,

its pore is large and non-selective, allowing other negatively charged species to permeate.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the DOG1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the C-terminus of human ANO1/TMEM16A/DOG1 (KVLMVELFMREEQDKQQ) was used as the immunogen for this DOG1 antibody.

## Storage

After reconstitution, the DOG1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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