

### Product datasheet for AM33350PU-T

#### OriGene Technologies, Inc.

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## TMEM16A (ANO1) Mouse Monoclonal Antibody [Clone ID: DOG1.1]

#### **Product data:**

**Product Type:** Primary Antibodies

Clone Name: DOG1.1
Applications: IHC

**Recommended Dilution:** Immunohistochemistry on Formalin-fixed Sections: 1.0 - 2.0 μg/ml for 30 minutes at RT.

Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH

6.0, for 10-20 min followed by cooling at RT for 20 minutes.

**Positive Control**: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor.

Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.

Reactivity: Human Host: Mouse

**Isotype:** IgG1

Clonality: Monoclonal

Immunogen: A synthetic peptide from Human DOG-1 protein (MSDFV DWVIPDIPKDISQQIHK-

EKVLMVELFMREEQDKQQLLETCMEKER QKDEPPCNHHNTKACPDSLGSP APSHAYHGGVL),

conjugated to a carrier protein.

**Specificity:** Expression of DOG-1 protein is elevated in the gastrointestinal stromal tumors (GIST's), c-kit

signaling-driven mesenchymal tumors of the GI tract. DOG-1 is rarely expressed in other soft tissue tumors, which, due to appearance, may be difficult to diagnose. Immunoreactivity for DOG-1 has been reported in 97.8 percent of scorable GIST's, including all c-kit negative GIST's. Overexpression of DOG-1 has been suggested to aid in the identification of GISTs, including Platelet-Derived Growth Factor Receptor Alpha mutants that fail to express c-kit antigen. The

overall sensitivity of DOG1 and c-kit in GIST's is nearly identical: 94.4% vs. 94.7%.

**Cellular Localization**: Cell Surface and Cytoplasmic.

Formulation: 10mM PBS

State: Purified

State: Liquid purified IgG fraction from Bioreactor Concentrate

Stabilizer: 0.05% BSA

Preservative: 0.05% Sodium Azide

**Concentration:** lot specific

**Purification:** Protein A/G Chromatography





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Conjugation: Unconjugated

**Storage:** Store undiluted at 2-8°C.

**Stability:** Shelf life: one year from despatch.

Predicted Protein Size: ~114 kDa

Gene Name: anoctamin 1

Database Link: Entrez Gene 55107 Human

Q5XXA6

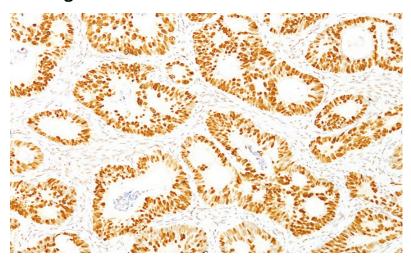
Background: DOG1 gene, a gastrointestinal stromal tumor (GIST) specific gene, encoding for the

hypothetical protein FLJ10261, which was named *Discovered on GIST 1* (DOG1). DOG1 protein is expressed ubiquitously in gastrointestinal stromal tumors irrespective of KIT or PDGFR

alpha mutation status.

Synonyms: Anoctamin-1, Transmembrane protein 16A, DOG-1, ORAOV2, TAOS2, TMEM16A

# **Product images:**



Formalin-Fixed, Paraffin-Embedded GIST (20X) stained with DOG1 Antibody. (Clone DOG1.1).