

Product datasheet for **AM33350PU-T**

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-EKVLMLVELFMREEQDKQQLLETCMEKER QKDEPPCNHHNTKACPDSLGSAPSHAYHGGVL), 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 <i>Discovered on GIST 1</i> (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).