

Product datasheet for **AM10078SU-N**

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

Product data:

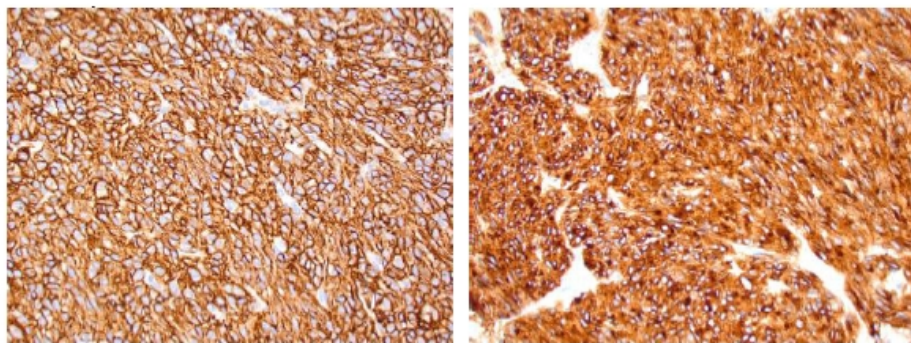
Product Type:	Primary Antibodies
Clone Name:	DOG1.1
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Formalin-Fixed, Paraffin-Embedded Sections: 1/100. Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. Use Polymer anti Mouse/Rabbit IgG as a detection system. Positive Control: Breast carcinomas.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Synthetic peptides FLJ34272 specific to Human Gastrointestinal Stromal Tumor (GIST)
Specificity:	DOG1-1 Monoclonal antibody yielded positive staining in 370 of 425 (87%) GIST, whereas CD117 was positive in 317 of 428 (74%) GIST. For special GISTs, DOG1 immunoreactivity was detected in 23/29 (79%) GISTs with mutations, while only 9% (3/32) stained for CD117; in 10/28 (36%) KIT-negative GISTs; in 16 (100%) NF1-associated GISTs; and in 9/11 (82%) pediatric GISTs. Only 1 of 326 (0.3%) leiomyosarcomas and 1 of 39 (2.5%) synovial sarcomas among the 935 soft tissue tumors examined showed positive immunostaining for DOG1.1. In addition, DOG1.1 immunoreactivity was seen in fewer cases of carcinoma, melanoma, and seminoma as compared with KIT. Therefore, DOG1.1 is a sensitive and specific immunohistochemical marker for GIST, comparable with KIT, with the additional benefit of detecting KIT-negative GISTs. DOG1.1 is also a sensitive marker for unusual GIST subgroups lacking KIT or PDGFRA mutations. In tumors that are negative for both KIT and DOG1.1, mutational screening may be required to confirm the diagnosis of GIST. Cellular Localization: Cell Membrane.
Formulation:	State: Supernatant State: Tissue Culture Supernatant with 0.2% BSA and < 0.1% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated



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Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	anoctamin 1
Database Link:	Entrez Gene 3690 Human 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
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Regulation of actin cytoskeleton

Product images:



Formalin-Fixed, Paraffin-Embedded GIST stained with DOG1 antibody Cat.-No. AM10078SU-N using peroxidase conjugate and DAB chromogen. Note the strong membranous (left) and cytoplasmic (right) staining of tumor cells.