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Datasheet for ABIN6940374  
**anti-ANO1 antibody (AA 2-101)**

3 Images

### Overview

Quantity:	100 µg
Target:	ANO1
Binding Specificity:	AA 2-101
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ANO1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

### Product Details

Immunogen:	Recombinant human DOG-1 protein fragment (aa 2-101) (exact sequence is proprietary)
Clone:	DG1-1484
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

### Target Details

Target:	ANO1
Alternative Name:	TMEM16A ( <a href="#">ANO1 Products</a> )
Background:	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

## Target Details

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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 %.

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Molecular Weight: ~114kDa

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Gene ID: 55107

## Application Details

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Application Notes: 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. Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

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Restrictions: For Research Use only

## Handling

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Concentration: 200 µg/mL

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Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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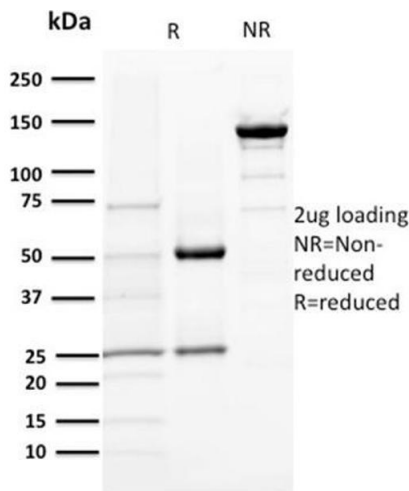
Storage: 4 °C,-80 °C

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Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

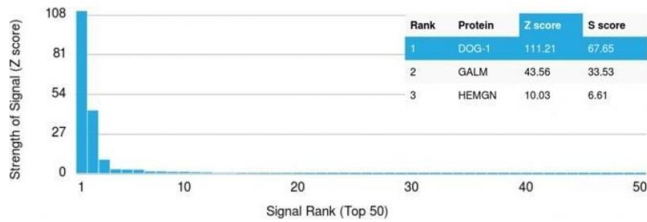
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Expiry Date: 24 months



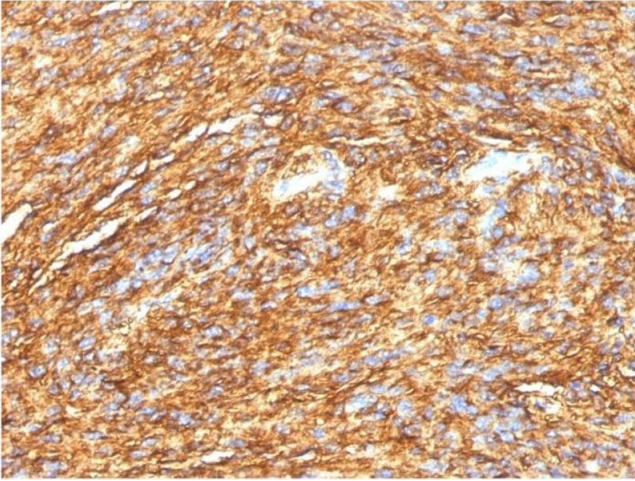
### SDS-PAGE

**Image 1.** SDS-PAGE Analysis Purified DOG-1 Mouse Monoclonal Antibody (DG1/1484). Confirmation of Integrity and Purity of Antibody



### Protein Array

**Image 2.** Analysis of Protein Array containing more than 19,000 full-length human proteins using DOG-1 Mouse Monoclonal Antibody (DG1/1484). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human GIST stained with DOG-1 Mouse Monoclonal Antibody (DG1/1484).