

## Dog1 (Clone 1.1)

### Mouse Monoclonal Antibody

Cat. #MS-1933-P0, or -P (0.1ml or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #MS-1933-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

**Description:** Dog1 is a cell surface protein of unknown function selectively expressed in gastrointestinal stromal tumors (GIST). Among GIST cases with KIT mutations the Dog1 antibody identified 11% more cases than c-Kit antibody<sup>1</sup>. Dog1 identifies vast majority of both c-Kit negative and PDGFRA mutated GIST cases that may still benefit from imatinib mesylate (Gleevac), an inhibitor of the kit tyrosin kinase<sup>2</sup>. In addition, Dog1 immunoreactivity is seen in fewer cases of mesenchymal, epithelial tumors and melanomas when compared with c-Kit. The use of this highly sensitive and specific novel marker will increase the accuracy of GIST diagnosis.

**Mol. Wt. of Antigen:** 78kDa

**Species Reactivity:** Human. Others-not known

**Clone Designation:** 1.1

**Ig Isotype / Light Chain:** unknown

**Immunogen:** Synthetic peptide of human Dog1

#### Applications and Suggested Dilutions:

- Immunohistology (Formalin/paraffin)  
(1:100 for 20 min at RT using the LP detection system)
- \* (Staining of formalin-fixed sections require heat induced antigen retrieval using EDTA, pH 8.0 (Cat.# AP-9004-XXX or TA-XXX-PM2X), heating to 98°C for 20 min using the Thermo Scientific PTModule)

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Gastrointestinal Stromal Tumors

**Cellular Localization:** Cytoplasmic & Membranous

**Supplied As:** 200µg/ml of antibody purified from ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.

or

Prediluted antibody which is ready-to-use for immunohistochemical staining.

**Storage and Stability:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

#### Key References:

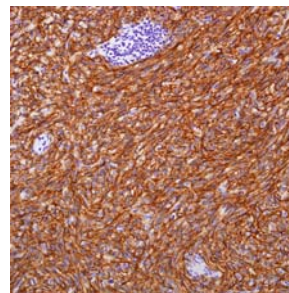
1. Liegl, B. et al. 2009. Am J Surg Pathol. 33(3):437-446.
2. Espinosa I et al. 2008. Am J Surg Pathol. 32(2):210-218.
3. West RB et al. 2004. Am J Pathol. 165(1): 107-113.

#### Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

#### Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.



Formalin-fixed, paraffin-embedded human gastrointestinal stromal tumor stained with mouse monoclonal Dog1 (Cat. #MS-1933-P) using peroxidase-conjugate and DAB chromogen. Note cytoplasmic/ membranous staining.

**For Research Use Only**

