
DOG1 (Clone DOG1.1)

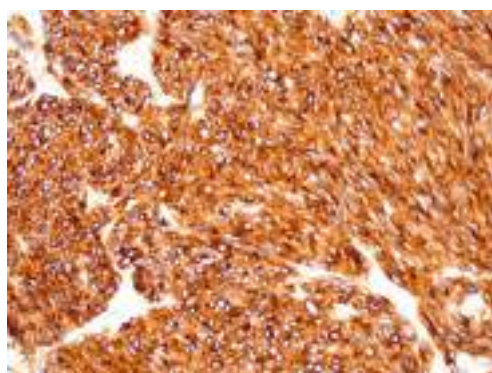
Mouse Monoclonal Antibody

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|---------------------|---|
| Specificity: | Human. Others not tested |
| Immunogen: | Synthetic peptides FLJ34272 specific to human gastrointestinal stromal tumor (GIST) |
| Ig Class: | Mouse IgG |
| Storage: | Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months. |

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100. *Positive Control:* Breast carcinomas. *Cellular Localization:* Cell membrane. *Intended Use:* In vitro diagnosis (IVD).

Description: 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 PDGFRA mutation status. DOG1-1 monoclonal antibody yielded positive staining in 95% GIST. For special GISTs, DOG1 immunoreactivity was detected in 79%, while only 9% stained for CD117; in 36% KIT-negative GISTs; in 100% NF1-associated GISTs; and in 82% pediatric GISTs. Less than 1% leiomyosarcomas and 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 mutation. 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.

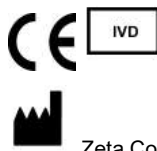
Supplied As: Tissue culture supernatant with 0.2% BSA and 15mM sodium azide.



Formalin-fixed, paraffin-embedded GIST stained with DOG 1.1 antibody using peroxidase-conjugate and DAB chromogen. Note the strong cytoplasmic staining of tumor cells

Cat. #Z2013 (1.0 ml)

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