Mouse Anti-DOG1 [DOG1.1]: MC0362, MC0362RTU7

Intended Use: For Research Use Only

Description: DOG-1, a 986 amino acid protein of unknown function, is expressed predominantly on the plasma membrane of gastrointestinal stromal tumors (GISTs) and is rarely expressed in other soft tissue tumors, which, due to appearance, can be confused with GISTs. Immunoreactivity for DOG-1 has been reported to be found in 97.8 percent of scorable GISTs, including all KIT negative GISTs. In addition, DOG1.1 immunoreactivity was seen in fewer cases of carcinoma, melanoma, and seminoma as compared with KIT. 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.

Specifications

Clone: DOG1.1
Source: Mouse
Isotype: IgG1k
Reactivity: Human
Localization: Membrane and cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage: Store at 2°- 8°C
Applications: IHC

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog No.</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>DOG1 Concentrated</td>
<td>MC0362</td>
<td>1 ml</td>
</tr>
<tr>
<td>DOG1 Prediluted</td>
<td>MC0362RTU7</td>
<td>7 ml</td>
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</tbody>
</table>

IHC Procedure*

Positive Control Tissue: Breast cancer, GIST
Concentrated Dilution: 50-200
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.

References:

Doc. 100-MC0362
Rev. B

Orders: customercare@medaysis.com Support: techsupport@medaysis.com Tel: 510-509-3153 www.medaysis.com
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