DOG1 Antibody

Datasheet

For Research Use Only

Description	Catalog No.	Size
DOG1 Concentrate	FP-A056-01	0.1 ml
DOG1 Concentrate	FP-A056-05	1 ml
DOG1 Predilute	FP-A056-70	7 ml

Description

DOG1, also known as Discovered on GIST-1, is a marker that is highly specific for gastrointestinal stromal tumour (GIST). Anti-DOG1 is extremely sensitive for the detection of GIST and its diagnosis. Although some GIST stain weakly for c-kit, DOG1 is expressed in the vast majority of GIST cases. Reports have also indicated DOG1 as a marker for salivary acinar and intercalated duct differentiation.

Specifications

Clone	IHC562
Source	Mouse Monoclonal
Applications	IHC (P)
Formulation	Tris Buffer, pH 7.3 - 7.7, with 1% BSA and <0.1% Sodium Azide

IHC Procedure*

Positive Control Tissue	Gastrointestinal Stromal Tumor
Concetrated Dilution	1:50 – 1:200
Pretreatment	Perform heat-induced epitope retrieval (HIER) at pH 9 for 10 to 30 minutes
Incubation Time and Temp	10 to 30 minutes at room temperature
Detection	Refer to the detection system manual

*Result should confirmed by an established diagnostic procedure.

Result

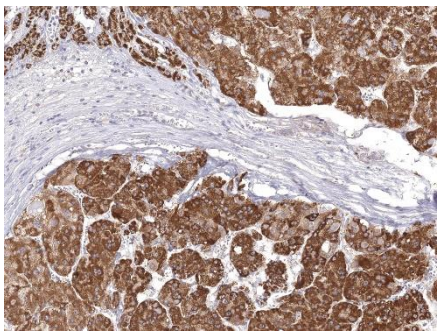

Figure. DOG1 on Liver Cancer

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Storage and Handling

Must store the reagent at 2-8 °C. Do not freeze. Do not use the reagent after expiration date on vial. To ensure proper stability and delivery of the antibody after each run, replace the cap and immediately place the bottle in a refrigerator in an upright position. Positive and negative controls should be simultaneously run with unknown specimens, as there are no conclusive characteristics to suggest instability of the antibody.

Precautions

The product is for research use only. Do not use for diagnosis purpose. Ensure proper handling procedures are used with all reagents. Always wear laboratory coats, disposable gloves, and other appropriate laboratory equipment when handling reagents. Do not ingest reagents, and avoid contact with eyes and mucous membranes. Wash eyes with copious amounts of water if contact occurs.

References

1. **Espinosa I**, et al. "A novel monoclonal antibody against DOG1 is a sensitive and specific marker for gastrointestinal stromal tumors." Am J Surg Pathol. 2008 Feb;32(2):210-8.
2. **Miwa S**, et al. "Mutation assay of the novel gene DOG1 in gastrointestinal stromal tumors (GISTs)." J Gastroenterol. 2008; 43:531-7.
3. **Parfitt JR**. "Gastrointestinal Kaposi's sarcoma: CD117 expression and the potential for misdiagnosis as gastrointestinal stromal tumor?" Histopathology. 2008 Jun;52(7):816-23.
4. **West RB,** et al. "The novel marker, DOG1, is expressed ubiquitously in gastrointestinal stromal tumors irrespective of KIT or PDGFRA mutation status." Am J Pathol. 2004 Jul;165(1):107-13.
5. **Lopes LF,** et al. "DOG1 for the diagnosis of gastrointestinal stromal tumor (GIST): Comparison between 2 different antibodies." Appl Immunohistochem Mol Morphol. 2010; 18:333-7.
6. **Chênevert J,** et al. "DOG1: a novel marker of salivary acinar and intercalated duct differentiation." Mod Pathol. 2012; 25:919-29.

Technical Support

Contact FemtoPath Technical Support at +886232338585 or email to femtopath@hongjing.com.tw for questions regarding this product.