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DATA SHEET

Mouse Anti-DHH [MD389]: MC0504, MC0504RTU7

Intended Use: For Research Use Only

Description: DHH gene encodes a member of the Hedgehog family. The hedgehog gene family encodes signaling molecules that functions in the regulation of cell growth and differentiation, making Dhh essential for proper organogenesis and maintenance of stem cell populations. The C-terminal product covalently attaches a cholesterol moiety to the N-terminal product, restricting the N-terminal product to the cell surface and preventing it from freely diffusing throughout the organism. Defects in this protein have been associated with partial gonadal dysgenesis (PGD) accompanied by minifascicular polyneuropathy. Understanding Dhh function and modifications is important for elucidating developmental biology roles and potential implications in diseases such as cancer, where hedgehog signaling can be aberrantly activated.

Specifications

Clone:	MD389
Source:	Mouse
Isotype:	IgG2a/k
Reactivity:	Human, mouse, rat
Immunogen:	Human DHH protein aa 57-83 mapping at the N-terminus
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, IF, IP, WB

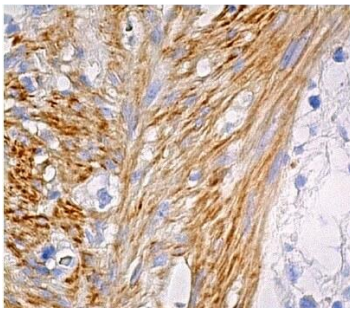
Package:

Description	Catalog No.	Size
DHH [MD389] Concentrated	MC0504	1 ml
DHH [MD389] Prediluted	MC0504RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Stomach, brain, gall bladder
Concentrated Dilution:	25-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes 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.



FFPE human gall bladder stained with anti-DHH using DAB

References:

1. Desert Hedgehog-Driven Endothelium Integrity Is Enhanced by Gas1 (Growth Arrest-Specific 1) but Negatively Regulated by Cdon (Cell Adhesion Molecule-Related/Downregulated by Oncogenes). Chapouly, C. et al. Arterioscler Thromb Vasc Biol. ATVBAHA120314441, 2020.
2. Full-length dhh and N-terminal shh act as competitive antagonists to regulate angiogenesis and vascular permeability. Hollier, PL. et al. Cardiovasc Res. 2020.
3. Involvement of hedgehog pathway in early onset, aggressive molecular subtypes and metastatic potential of breast cancer. Riaz, SK. et al. Cell Commun. Signal. 16: 3, 2018.

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