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DATA SHEET

Mouse Anti-HAS3 (Hyaluronan Synthase 3) [MD441]: MC0692

Intended Use: For Research Use Only

Description: There are three hyaluronan synthases including HAS1, HAS2, and HAS3. Hyaluronic acid (HA) is a high molecular weight linear polysaccharide composed of alternating glucuronic acid and N-acetylglucosamine residues, linked by β-1,3 and β-1,4 glycosidic bonds. The unique structure of HA allows water retention and provides hydration and lubrication in tissues, making HA essential for maintaining cartilage and other connective tissues. The differential expression of HAS1, HAS2, and HAS3 during development indicates distinct roles in HA matrix formation, with HAS3 acting as a key regulator of hyaluronan synthesis and producing shorter hyaluronan chains. HAS3 expression is particularly important in the epidermis, where interferon-gamma significantly upregulates and transforming growth factor-beta downregulates HAS3, indicating involvement in inflammatory responses and tissue repair mechanisms. HAS3 is prominently expressed in the skin, gastrointestinal tract, heart, and lungs, where it influences cell adhesion, migration, tissue architecture, and wound repair.

Specifications

Clone:	MD441
Source:	Mouse
Isotype:	IgG2b/k
Reactivity:	Human
Immunogen:	Amino acids 124-187 mapping within an internal region of human HAS3
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ICC/IF, WB

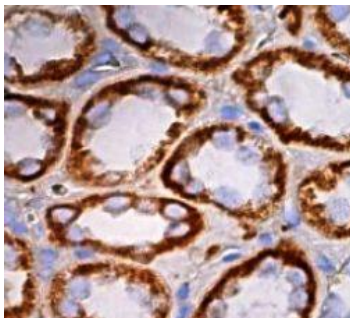
Package:

Description	Catalog No.	Size
HAS3 (Hyaluronan Synthase 3) [MD441] Concentrated	MC0692	1 ml

IHC Procedure*

Positive Control Tissue:	Gastrointestinal tract, skin, kidney, liver, thyroid cancer
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 kidney stained with anti-HAS3 using DAB

References:

1. Targeting hyaluronic acid synthase-3 (HAS3) for the treatment of advanced renal cell carcinoma. Jiaojiao Wang, et al. Cancer International. Volume 22, article number 421, 2022.
2. Type-3 Hyaluronan Synthase Attenuates Tumor Cells Invasion in Human Mammary Parenchymal Tissues. Wen-Jui Lee, et al. Molecules. Oct 29;26(21):6548, 2021. doi: 10.3390/molecules26216548.

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