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DATA SHEET

Mouse Anti-HAS2 (Hyaluronan Synthase 2) [MD440]: MC0691

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 HAS2 being predominantly expressed in chondrocytes and cartilage, highlighting HAS2′s importance in skeletal development and joint health. The human HAS2 gene is located on chromosome 8q24.12, HAS2 is generally considered the most important hyaluronan synthase isoform overall. It is the most widely expressed and studied in mammalian tissues, plays a critical role in embryonic development (especially heart morphogenesis), and drives cell proliferation and tissue remodeling.

Specifications

Clone:	MD440
Source:	Mouse
Isotype:	IgM/k
Reactivity:	Human, mouse, rat
Immunogen:	Amino acids within a C-terminal cytoplasmic domain of human HAS2
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

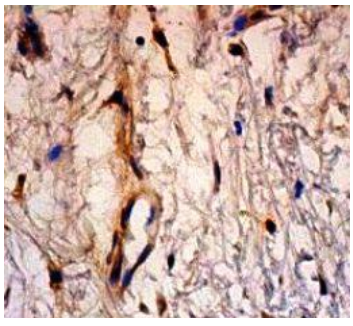
Package:

Description	Catalog No.	Size
HAS2 (Hyaluronan Synthase 2) [MD440] Concentrated	MC0691	1 ml

IHC Procedure*

Positive Control Tissue:	Connective tissue and cartilage, embryo tissue, heart, kidney
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 bone marrow stained with anti-HAS2 using DAB

References:

1. Synthetic Cannabinoids Induce Autophagy and Mitochondrial Apoptotic Pathways in Human Glioblastoma Cells Independently of Deficiency in TP53 or PTEN Tumor Suppressors. Aleksandra Ellert-Miklaszewska, et al., Cancers (Basel). Jan 22;13(3):419, 2021. doi: 10.3390/cancers13030419.
2. Activation of the FGFR-STAT3 pathway in breast cancer cells induces a hyaluronan-rich microenvironment that licenses tumor formation. Laura R Bohrer, et al., Cancer Res. 2014 Jan 1;74(1):374-86. doi: 10.1158/0008-5472.CAN-13-2469.

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