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DATA SHEET

Mouse Anti-GP39/YKL40 [D11]: MC0468, MC0468RTU7

Intended Use: For Research Use Only

Description: Human cartilage glycoprotein 39 (GP39), also known as YKL40 or Chitinase-3-like protein 1 (CHI3L1), a glycoprotein encoded by the CHI3L1 gene, is secreted by articular chondrocytes, synoviocytes and macrophages but is undetectable in muscle tissues, lung, pancreas, mononuclear cells and fibroblasts. Unlike other members of the chitinase-like protein family, GP39 is not an active chitinase. It is a pro-inflammatory molecule that contributes to the progression of many inflammatory diseases, including fibrosis, neurodegenerative disease, breast, lung, prostate, liver, bladder, colon cancers. Levels of GP39 in serum and plasma in patients with various types of tumors have been reported to predict poor prognosis. It can be used as a predictive biomarker of cancer outcome.

Specifications

Clone:	D11
Source:	Mouse
Isotype:	IgM/k
Reactivity:	Human, mouse, rat
Immunogen:	N-terminus of human YKL40 aa 28-42
Localization:	Secreted
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

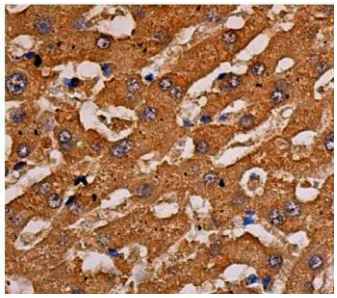
Package:

Description	Catalog No.	Size
GP39/YKL40 [D11] Concentrated	MC0468	1 ml
GP39/YKL40 [D11] Prediluted	MC0468RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Spleen, liver
Concentrated Dilution:	50-200
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 liver stained with anti-YKL40 using DAB showing cytoplasmic staining of hepatocytes

References:

1. Characterization of the interleukin-17 effect on articular cartilage in a translational model: an explorative study. Sinkeviciute D, et al. BMC Rheumatol 4:30, 2020.
2. Chitinase-3-like Protein 1 (YKL-40) Expression in Squamous Cell Skin Cancer. Joanna Salomon, Anticancer Research August 2018, 38 (8) 4753-4758; doi: https://doi.org/10.21873/anticanres.
3. YKL-40 protein expression in normal adult human tissues--an immunohistochemical study. Merete Ringsholt, et al. J Mol Histol. Mar;38(1):33-43, 2007. doi: 10.1007/s10735-006-9075-0.

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