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DATA SHEET

Mouse Anti-CCN3/nov [D9]: MC0502, MC0502RTU7

Intended Use: For Research Use Only

Description: CCN3 or NOV (Nephroblastoma overexressed), belongs to the CCN (Cyr61, Ctgf, NOV) family of proteins. The protein encoded by this gene is a small secreted cysteine-rich protein and a member of the CCN family of regulatory proteins. CNN family proteins associate with the extracellular matrix and play an important role in cardiovascular and skeletal development, fibrosis and cancer development. CCN3 modulates bone turnover through various mechanisms and is implicated in the progression of primary bone cancers such as osteosarcoma and chondrosarcoma. Research has shown that CCN3 is also involved in the bone metastasis of melanoma, breast cancer, and prostate cancers. Recently, CCN3 was reported to play an important role in stem cell renewal. CCN3 is normally expressed in both embryonic and adult tissues. The activity of CCN3 is influenced by post translational modifications and proteolytic cleavage.

Specifications

Clone:	D9
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human
Localization:	Cytoplasm, nucleus
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

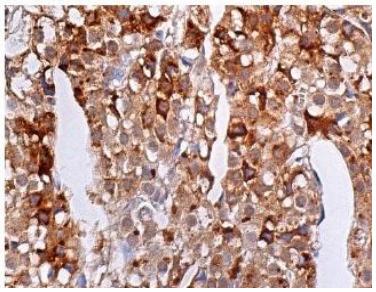
Package:

Description	Catalog No.	Size
CCN3/nov [D9] Concentrated	MC0502	1 ml
CCN3/nov [D9] Prediluted	MC0502RTU7	7 ml

IHC Procedure

Positive Control Tissue:	Human gastric carcinoma, HeLa cells
Concentrated Dilution:	50-200
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using 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 adrenal gland tissue.stained with anti-CCN3 using DAB showing cytoplasmic and nuclear staining of glandular cells

References:

1. CCN3 promotes epithelial-mesenchymal transition in prostate cancer via FAK/Akt/HIF-1α-induced twist expression. Chen PC, et al. Oncotarget. Aug 10;8(43):74506-74518, 2017.
2. Fibulin-1 is required for bone formation and Bmp-2-mediated induction of Osterix. Cooley MA, et al. Bone 69C:30-38, 2014.
3. CCN3 increases cell motility and ICAM-1 expression in prostate cancer cells. Chen PC, et al. Carcinogenesis. Apr;33(4):937-45, 2012.

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