

Rabbit Monoclonal Antibody to Human Nephroblastoma Overexpressed

Cat. No. CAB11588RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human Nephroblastoma Overexpressed
Species	Human
Source	Rabbit
Antigen Description	Protein NOV homolog, also known as Nephroblastoma-overexpressed gene protein homolog, NOV, and CCN3, is secreted protein which belongs to the CCN family. CCN3 expression was observed in a broad variety of tissues from the early stage of development. It contains one CTCK (C-terminal cystine knot-like) domain, one IGFBP N-terminal domain, one TSP type-1 domain, and one VWFC domain. CCN3, a founding member of the CCN family of growth regulators, was linked with hematology in 2003 when it was detected in human serum. CCN3 acts through the core stem cell signalling pathways including Notch and Bone Morphogenic Protein, connecting CCN3 with the modulation of self-renewal and maturation of a number of cell lineages including hematopoietic, osteogenic and chondrogenic. Altered CCN3 expression is associated with numerous solid tumors including glioblastoma, melanoma, adrenocortical tumours, prostate cancer and bone malignancies including osteosarcoma. CCN3 may affect the extracellular environment of the niche for hematopoietic stem cells. CCN3 has emerged as a key player in stem cell regulation, hematopoiesis and a crucial component within the bone marrow microenvironment.
Specificity	Human CCN3 / NOV / IGFBP9. No cross-reactivity in ELISA with Human WISP1;

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	Human cell lysate (293 cell line)
Immunogen	Recombinant Human CCN3 / NOV / IGFBP9 Protein
Isotype	Rabbit IgG
Clone	A131
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human NOV in WB. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human NOV. The detection limit for Human NOV is approximately 0.00975 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human CCN3 / NOV / IGFBP9
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	NOV nephroblastoma overexpressed [Homo sapiens]
Official Symbol	NOV

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Synonyms	NOV; nephroblastoma overexpressed; nephroblastoma overexpressed gene; protein NOV homolog; CCN3; IGFBP9; CCN family member 3; IGF-binding protein 9; insulin-like growth factor-binding protein 9; nephroblastoma-overexpressed gene protein homolog; NOVh; IBP-9; IGFBP-9;
Gene ID	4856
mRNA Refseq	NM_002514
Protein Refseq	NP_002505
MIM	164958
UniProt ID	P48745
Chromosome Location	8q24.12
Pathway	Delta-Notch Signaling Pathway, organism-specific biosystem;
Function	growth factor activity; insulin-like growth factor binding;

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