Recombinant Human Nephroblastoma Overexpressed Gene

Cat. No. NOV-2677H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NOV is expressed in*E. coli.*
Species	Human
Source	E.coli
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.
MW	36.2 kDa.

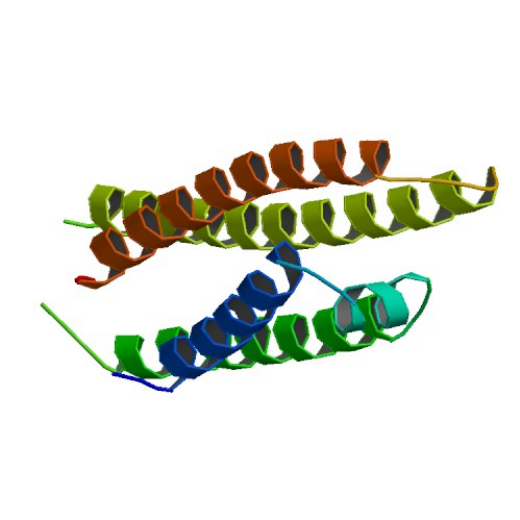
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	Greater than 90% (determined by SDS-PAGE and HPLC analysis).
Endotoxin Level	< 0.1 ng per μg of rHu APO-E4 (1EU/μg).
Formulation	Lyophilized from a sterile-filtered solution with no additives.
Reconstitution	Please Note: Always centrifuge product before opening vial. The lyophilized protein should be reconstituted with distilled, sterile water to a concentration of 0.1-1.0 mg/ml. For further dilution, carrier protein (0.1% BSA or HSA) should be added to avoid loss of bioactivity.
Storage	The lyophilized protein, though stable at room temperature for up to 3 weeks, is best stored desiccated at -20°C. Reconstituted protein should be used immediately or stored long-term in undiluted working aliquots at -20°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	NOV nephroblastoma overexpressed gene [Homo sapiens]
Synonyms	NOV; nephroblastoma overexpressed gene; CCN3; IGFBP9; Protein NOV homolog; NovH; Nephroblastoma overexpressed gene protein homolog; NOVH
Gene ID	4856
mRNA Refseq	NM_002514
Protein Refseq	NP_002505
MIM	164958

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID	P48745
Chromosome Location	8q24.12
Function	growth factor activity; insulin-like growth factor binding
PDB rendering based on 1b68.	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA