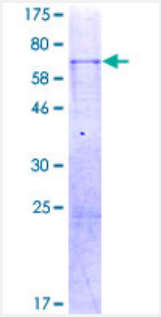
Full-Length

WNT9A (Human) Recombinant Protein (P01)

Catalog # H00007483-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human WNT9A full-length ORF (NP_003386, 1 a.a. - 365 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MLDGSPLARWLAAAFGLTLLLAALRPSAAYFGLTGSEPLTILPLTLEPEAAAQAHYKACDRLKLER KQRRMCRRDPGVAETLVEAVSMSALECQFQFRFERWNCTLEGRYRASLLKRGFKETAFLYAISS AGLTHALAKACSAGRMERCTCDEAPDLENREAWQWGGCGDNLKYSSKFVKEFLGRRSSKDLR ARVDFHNNLVGVKVIKAGVETTCKCHGVSGSCTVRTCWRQLAPFHEVGKHLKHKYETALKVGST TNEAAGEAGAISPPRGRASGAGGSDPLPRTPELVHLDDSPSFCLAGRFSPGTAGRRCHREKNC ESICCGRGHNTQSRVVTRPCQCQVRWCCYVECRQCTQREEVYTCKG
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	65.78
Interspecies Antigen Sequence	Mouse (98)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — WNT9A

Entrez GeneID	7483
GeneBank Accession#	NM_003395.1
Protein Accession#	NP_003386
Gene Name	WNT9A
Gene Alias	MGC138165, MGC141991, WNT14
Gene Description	wingless-type MMTV integration site family, member 9A
Omim ID	602863
Gene Ontology	Hyperlink
Gene Summary	The WNT gene family consists of structurally related genes that encode secreted signaling protein s. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of th e WNT gene family. It is expressed in gastric cancer cell lines. The protein encoded by this gene s hows 75% amino acid identity to chicken Wnt14, which has been shown to play a central role in ini tiating synovial joint formation in the chick limb. This gene is clustered with another family member , WNT3A, in the chromosome 1q42 region. [provided by RefSeq
Other Designations	wingless-type MMTV integration site family, member 14

Publication Reference

- Dysregulation of the Wnt signaling pathway and synovial stem cell dysfunction in osteoarthritis development.

  Huang J, Chen C, Liang C, Luo P, Xia G, Zhang L, Wang X, Wen Z, Cao X, Wu S.

  Stem Cells and Development 2020 Apr; 29(7):401.

  Application: Func, Human, Human synovial mesenchymal stem cells

- Identification of fibronectin as a major factor in human serum to recruit subchondral mesenchymal progenitor cells.

  Kulawig R, Kruger JP, Klein O, Konthur Z, Schutte H, Klose J, Kaps C, Endres M.

  The International Journal of Biochemistry & Cell Biology 2013 Jul; 45(7):1410.

  Application: Func, Human, Human mesenchymal progenitor cells

Pathway

- Basal cell carcinoma
- Hedgehog signaling pathway
- Melanogenesis
- Pathways in cancer
- Wnt signaling pathway

Disease

- Osteoporosis