

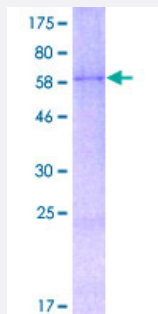
Full-Length

WNT2 (Human) Recombinant Protein (P01)

Catalog # H00007472-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human WNT2 full-length ORF (AAH29854, 1 a.a. - 360 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MNAPLGGMWLWLP LLL TWLTPEVNSSWWYMRATGGSSSRVMCDNVPGLVSSQRQLCHRHPDVM
RAISQGVAEWTAECQHQRQHRWNCNTLDRDHSLFGRVLLRSSRESAFVYAISSAGVVFAITRAC
SQGEVKSCSCDPKKMGSAKDSKGIFDWGGCSDNIDYGIKFARAFVDAKERKGKDARALMNLHN
NRAGRKAVKRFLKQECKCHGVSGSCTLRTCWLAMADFRKTGDYLWRKYNGAIQVVMNQDGTGF
TVANERFKKPTKNDLVYFENSPDYCIRDREAGSLGTAGRVCNLT SRGMDSCCEVMCCGRGYDTSH
VTRMTKCGCKFHWCCAVRCQDCLEALDVHTCKAPKNADWTTAT

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

65.34

Interspecies Antigen Sequence

Mouse (96); Rat (96)

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 — WNT2

Entrez GeneID[7472](#)**GeneBank Accession#**[BC029854](#)**Protein Accession#**[AAH29854](#)**Gene Name**

WNT2

Gene Alias

INT1L1, IRP

Gene Description

wingless-type MMTV integration site family member 2

Omim ID[147870](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene is a member of the WNT gene family. The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. Alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq]

Other Designations

Int-1-related protein|protein Wnt-2|secreted growth factor

Publication Reference

- [WNT Co-Receptor LRP6 Is Critical for Zygotic Genome Activation and Embryonic Developmental Potential by Interacting with Oviductal Paracrine Ligand WNT2.](#)

Fusheng Yao, Jia Hao, Zhaochen Wang, Meiqiang Chu, Jingyu Zhang, Guangyin Xi, Zhenni Zhang, Lei An, Jianhui Tian.
Genes 2023 Apr; 14(4):891.

Application: Sub, Mouse, Mouse embryo

- [Wnt2 contributes to the progression of gastric cancer by promoting cell migration and invasion.](#)

Zhang Z, Wang J, Dong X.
Oncology Letters 2018 Sep; 16(3):2857.

Application: Func, Human, BGC823, SGC-790 cells

- [Decreased expression of WNT2 in villi of unexplained recurrent spontaneous abortion patients may cause trophoblast cell dysfunction via downregulated Wnt/ \$\beta\$ -catenin signaling pathway.](#)

Li N, Li S, Wang Y, Wang J, Wang K, Liu X, Li Y, Liu J.
Cell Biology International 2017 Aug; 41(8):898.

Application: Func, Human, HTR-8/SVneo cells

- [Wnt4/ \$\beta\$ -catenin signaling induces VSMC proliferation and is associated with intimal thickening.](#)

Tsaousi A, Williams H, Lyon CA, Taylor V, Swain A, Johnson JL, George SJ.
Circulation Research 2011 Feb; 108(4):427.

Application: Treated, Recombinant protein

- [Mice deficient in heparan sulfate 6-O-sulfotransferase-1 exhibit defective heparan sulfate biosynthesis, abnormal placentation and late embryonic lethality.](#)

Habuchi H, Nagai N, Sugaya N, Atsumi F, Stevens RL, Kimata K.
The Journal of Biological Chemistry 2007 Apr; 282(21):15578.

Application: Func, Sensor chips

Pathway

- [Basal cell carcinoma](#)
- [Hedgehog signaling pathway](#)
- [Melanogenesis](#)
- [Pathways in cancer](#)
- [Wnt signaling pathway](#)

Disease

- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [NARP](#)
- [Ovarian Neoplasms](#)
- [Schizophrenia](#)