

Recombinant Human WNT5A, GST-tagged

Cat. No. WNT5A-2055H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human WNT5A (1 aa. - 380 aa.) fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	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. This gene encodes a member of the WNT family that signals through both the canonical and non-canonical WNT pathways. This protein is a ligand for the seven transmembrane receptor frizzled-5 and the tyrosine kinase orphan receptor 2. This protein plays an essential role in regulating developmental pathways during embryogenesis. This protein may also play a role in oncogenesis. Mutations in this gene are the cause of autosomal dominant Robinow syndrome. Alternate splicing results in multiple transcript variants.
Molecular Mass	68.7 kDa
Sequence	MKKSIGILSPGVALGMAGSAMSSKFFLVALAIFFSFAQVVIEANSWWSLGMNNPVQM SEVYIIGAQPLCSQLAGLSQGQKKLCHLYQDHMQYIGEGAKTGIKECQYQFRHRRW NCSTVDNTSVFGRVMQIGSRETAFTYAVSAAGVVNAMSRACREGELSTCGCSRAA RPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAKGSYESARILMNLHNNE

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AGRRTVYNLADVACKCHGVSGSCSLKTCWLQLADFRKVGDALKEKYDSAAAMRLN
 SRGKLVQVNSRFNSPTTQDLVYIDPSPDYCVRNESTGSLGTQGRLCNKTSEGMDG
 CELMCCGRGYDQFKTVQTERCHCKFHWCCYVKCKKCTEIVDQFVCK

Storagebuffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.

Applications ELISA; WB

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

OfficialSymbol WNT5A

GENE INFORMATION

Gene Name [WNT5A wingless-type MMTV integration site family, member 5A \[Homo sapiens \]](#)

Synonyms WNT5A; wingless-type MMTV integration site family, member 5A; protein Wnt-5a; hWNT5A; WNT 5A protein; WNT-5A protein

Gene ID [7474](#)

mRNA Refseq [NM_003392](#)

Protein Refseq [NP_003383](#)

MIM [164975](#)

UniProt ID [P41221](#)

Chromosome Location 3p21-p14

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Pathway	Basal cell carcinoma; Class B/2 (Secretin family receptors); DNA damage response (only ATM dependent); GPCR ligand binding; HTLV-I infection
Function	cytokine activity; frizzled binding; frizzled-2 binding; protein domain specific binding; receptor agonist activity; receptor tyrosine kinase-like orphan receptor binding; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding

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