

Active Recombinant Human WNT5A Protein, His tagged

Cat. No. WNT5A-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Wnt5a Protein, Human (His) is the recombinant human-derived Wnt5a, expressed by E. coli , with N-6*His tag.
Species	Human
Source	E.coli
ProteinLength	62-380 aa
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.
Form	Lyophilized Powder
Molecular Mass	39.8 kDa
Endotoxin	<1 EU/μg by LAL

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Purity	> 95% by SDS-PAGE
Storage	Stored at -20 centigrade for 2 years from date of receipt. After reconstitution, it is stable at 4 centigrade for 1 week or -20 centigrade for longer (with carrier protein). It is recommended to freeze aliquots at -20 or -80 centigrade for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage Buffer	Lyophilized from a 0.22 µm filtered solution of PBS, 6% Trehalose, pH 7.4 or 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.

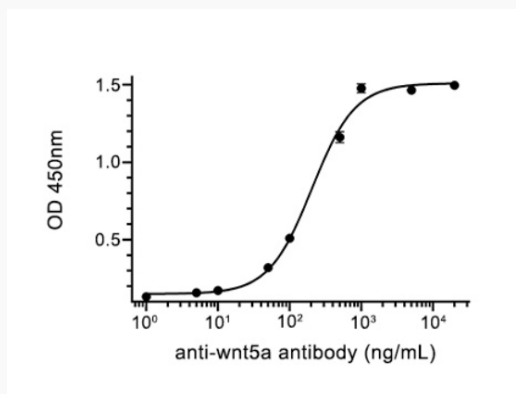
GENE INFORMATION

Gene Name	WNT5A Wnt family member 5A [Homo sapiens (human)]
Official Symbol	WNT5A Wnt family member 5A [Homo sapiens (human)]
Synonyms	WNT5A; Wnt family member 5A; hWNT5A; protein Wnt-5a; WNT-5A protein; epididymis secretory sperm binding protein; wingless-type MMTV integration site family, member 5A
Gene ID	7474
mRNA Refseq	NM_003392
Protein Refseq	NP_003383
MIM	164975

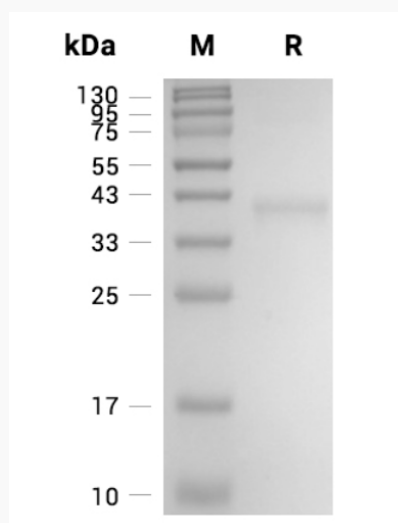
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UniProt ID
P41221
Activity


Immobilized Wnt5a at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Wnt5a antibody. The ED50 for this effect is 204.4 ng/mL.

SDS-PAGE and WB


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