

Active Recombinant Human WNT16 protein, His-GST-tagged

Cat. No. WNT16-583H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human WNT16 protein(30-365 aa), fused with N-terminal His tag and GST tag, was expressed in E. coli.
Species	Human
Source	E. coli
ProteinLength	30-365 aa
Form	PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.
Bio-activity	Wingless-type MMTV integration site family, member 16 is a protein that in humans is encoded by the WNT16 gene. The WNT gene family consists of structurally related genes that 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 is a member of the WNT gene family. It contains two transcript variants diverging at the 5' termini. These two variants are proposed to be the products of separate promoters and not to be splice variants from a single promoter. Besides, Tubulin Beta 3 (TUBb3) has been identified as an interactor of WNT16, thus a binding ELISA assay was conducted to detect the interaction of recombinant human WNT16 and recombinant human TUBb3. Briefly, WNT16 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μL were then transferred to TUBb3-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-WNT16 pAb, then

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aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding activity of WNT16 and TUBb3 was shown, and this effect was in a dose dependent manner.

Molecular Mass 70.0kDa

Purity >80%

Storage Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

Reconstitution Reconstitute in ddH2O to a concentration ≤0.1mg/mL. Do not vortex.

GENE INFORMATION

Gene Name WNT16 wingless-type MMTV integration site family, member 16 [Homo sapiens]

Official Symbol WNT16

Synonyms WNT16; wingless-type MMTV integration site family, member 16; protein Wnt-16; wingless-type MMTV integration site family member 16b;

Gene ID 51384

mRNA Refseq NM_016087

Protein Refseq NP_057171

MIM 606267

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UniProt ID	Q9UBV4
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Activity

SDS-PAGE

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