

## Active Recombinant Mouse Wnt10a protein, His-GST-tagged

Cat. No. Wnt10a-1487M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Wnt10a protein(108-343 aa), fused with N-terminal GST tag and His tag, was expressed in E.coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Form</b>	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
<b>Bio-activity</b>	<p>Wingless Type MMTV Integration Site Family, Member 10A (WNT10A) is a ligand for members of the frizzled family of seven transmembrane receptors. It is involved in the regulation of cell proliferation, differentiation, migration, and apoptosis.</p> <p>Overexpression of WNT10A has been associated with various diseases, including cancer, where it can contribute to tumorigenesis through activation of the Wnt-beta-catenin-TCF signaling pathway. LRP5 and LRP6, as co-receptors of Wnt signal, play a key role in the signal transduction process, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse WNT10A and recombinant rat LRP5. Briefly, WNT10A was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to LRP5-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-WNT10A pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630 nm</p>

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immediately. The binding activity of recombinant mouse WNT10A and recombinant rat LRP5 was shown, the EC50 for this effect is 0.026 ug/mL.

<b>Molecular Mass</b>	56.0kDa
<b>Endotoxin</b>	<1.0EU per 1µg (determined by the LAL method).
<b>Purity</b>	>80%
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 month.
<b>Reconstitution</b>	Reconstitute in ddH2O to a concentration of 0.1-0.5 mg/mL. Do not vortex.

## GENE INFORMATION

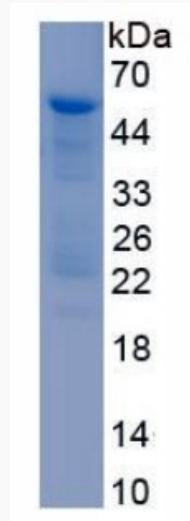
<b>Gene Name</b>	Wnt10a wingless related MMTV integration site 10a [ Mus musculus ]
<b>Official Symbol</b>	Wnt10a
<b>Synonyms</b>	WNT10A; wingless related MMTV integration site 10a; protein Wnt-10a;
<b>Gene ID</b>	22409
<b>mRNA Refseq</b>	NM_009518
<b>Protein Refseq</b>	NP_033544

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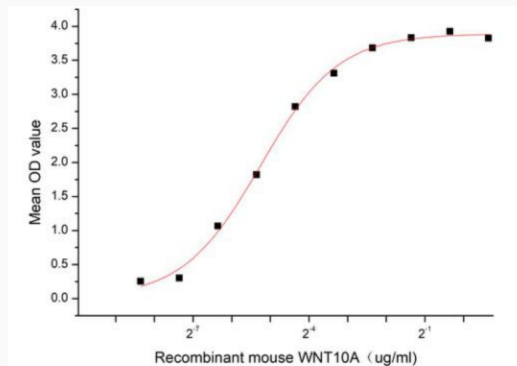
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SDS-PAGE



Activity



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