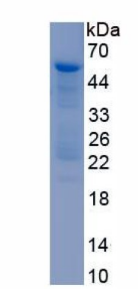
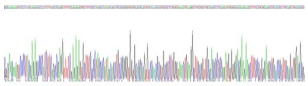
Mouse Protein Wnt-10a (WNT10A) Protein (Active)

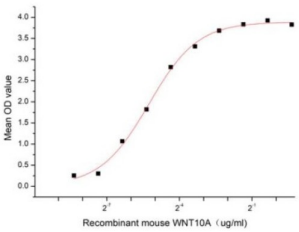
Catalogue No.:abx655981



SDS-PAGE analysis of recombinant Mouse WNT10A Protein.



Gene sequencing extract of recombinant Mouse WNT10A Protein.



Binding activity of active recombinant Mouse WNT10A Protein and recombinant Rat LRP5 Protein.

Mouse Wingless Type MMTV Integration Site Family, Member 10A (WNT10A) is an active recombinant Mouse protein produced in a Prokaryotic expression system (E. coli).

Target: Protein Wnt-10a (WNT10A)

Origin: Mouse

Expression: Recombinant

Tested Applications: WB, SDS-PAGE

Host: E. coli

Conjugation: Unconjugated

Abbexa LTD, Cambridge, UK · Phone: +44 (0) 1223 755950 · Fax: +44 (0) 1223 755951
Abbexa LLC, Houston, TX USA · Phone: +1 832 327 7413
Abbexa BV, Leiden, NL
Website: www.abbexa.com · Email: info@abbexa.com

Form:	Lyophilized
Purity:	> 80%
Reconstitution:	Reconstitute in ddH_2O to a concentration of 0.1-0.5 mg/ml. Do not vortex.
Storage:	Store at 2-8 °C for up to one month. Store at -80 °C for up to one year. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P70701 (UniProt, ExPASy)
Gene Symbol:	WNT10A
GeneID:	22409
KEGG:	mmu:22409
String:	10090.ENSMUSP00000006718
Molecular Weight:	Calculated MW: 56.0 kDa Observed MW (SDS-PAGE): 56 kDa
Sequence Fragment:	Ser108-Pro343
Sequence:	SSL ETRNKVPYES PIFSRGFRES AFAYAIAAAG VVHAVSNACA LGKLKACGCD ASRRGDEEAF RRKLHRLQLD ALQRGKGLSH GVPEHPAILP ASPGLQDSWE WGGCSPDVGF GERFSKDFLD SREPHRDIHA RMRLHNNRVG RQAVMENMRR KCKCHGTSGS CQLKTCWQVT PEFRTVGALL RNRFHRATLIRPHNRNGGQL EPGPAGAPSP APGTPGLRRR ASHSDLVYFE KSP
Tag:	N-terminal His tag and GST tag
Buffer:	Prior to lyophilization: PBS, pH 7.4, containing 0.01% Sarcosyl, 5% Trehalose.
Activity:	Active

Abbexa LTD, Cambridge, UK · Phone: +44 (0) 1223 755950 · Fax: +44 (0) 1223 755951
Abbexa LLC, Houston, TX USA · Phone: +1 832 327 7413
Abbexa BV, Leiden, NL
Website: www.abbexa.com · Email: info@abbexa.com

Biological Activity: 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. 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, therefore 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 microplate wells and incubated for 1 h at 37°C. Wells were washed with PBST and incubated for 1 h with anti-WNT10A polyclonal antibody, then aspirated and washed 3 times. After incubation with HRP-conjugated secondary antibody for 1 h at 37°C, wells were aspirated and washed 5 times. TMB substrate solution was added and wells were incubated for 15-25 minutes at 37 °C. Finally, 50 µl stop solution was added to the wells and the absorbance was read at 450/630 nm immediately. The binding activity of recombinant mouse WNT10A and recombinant rat LRP5 is shown in Figure 3. The EC50 is 0.026 µg/ml.

Endotoxin Level: < 1.0 EU per 1 µg (LAL method)

Concentration: Prior to lyophilization: 50 µg/ml

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

Abbexa LTD, Cambridge, UK · Phone: +44 (0) 1223 755950 · Fax: +44 (0) 1223 755951
Abbexa LLC, Houston, TX USA · Phone: +1 832 327 7413
Abbexa BV, Leiden, NL
Website: www.abbexa.com · Email: info@abbexa.com