

Recombinant Mouse Ltbp4 Protein (Full Length), C-MYC/DDK tagged

Cat. No. LTBP4-01MFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant full length protein of Mouse latent transforming growth factor beta binding protein 4 (Ltbp4) with C-MYC/DDK tag was expressed in HEK293T.
Species	Mouse
Source	HEK293
ProteinLength	Full Length
Description	Key regulator of transforming growth factor beta (TGFB1, TGFB2 and TGFB3) that controls TGF-beta activation by maintaining it in a latent state during storage in extracellular space. Associates specifically via disulfide bonds with the Latency-associated peptide (LAP), which is the regulatory chain of TGF-beta, and regulates integrin-dependent activation of TGF-beta.
Molecular Mass	178.6 kDa
AA Sequence	MRRPGLGGPCPLLLLLLLPAATSASGSSPSPSPSPSIEKAVVPSHQAGVAACHCCLDQ TPKSSRCTRASCVRNCPKCTGLEGLTPTPSVSPSRSPVEKSQVSLNWQPLT LQEARALLRQRRPRGPWARALLKRRPPHRAPAGQARVLCPLICHNGGVCVKPDRC LCPPDFAGKFCQLHSSGARPPAPAMPGLTRSVYTMPLANHRDDEHGVASMSVHV EHPQEASVVVHQVERVSGPWEEANPEALARAEAAARAEAAAPYTVLAQSAPREDG YSDASGFGYCFRELRGSECA SPLPGLRTQEVCCRGEGLAWGVHDCHPCAHLRN SNQVSGPNGPCPPGFERVNGSCVDVDECATGGRCQHGE CANTRGGYTVCVCPDG

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FLLDSSRSSCISQHVISEAKGPCYRVLHDGGCSLPILRNITKQICCCSRVGKAWGRG
 CQLCPYPYGSEGFREICPAGPGYHYSASDLRYNTRPLNQDPPRVTFNQPRVPPATPR
 PPTGFLPTRRPEPRPDGPQPEPRPRPEPRPRPESRPRPEPRPRPEPRPQPESQP
 RPESRPRPESQPWPEFPLPSIPAWTGPEIPESGPGSSSMCQRNPQVCGPGRCVPRP
 SGYTCACDPGFRLGPQGTRCIDIDECRRVPTPCAPGRCENTPGSFRCVCGTGFQA
 GPRATECLDVDECRRVPPPCDRGRCENTPGSFLCVCPAGYQAAPHGASCQDVDE
 CTQSPGLCGRGVCENLPGSFRCVCPAGFRGSACEEDVDECAQQPPPCGPGRCND
 TAGSFHCACPAGFRSRGPGAPCQDVDECSRSPSPCAYGRCENTEGSFKVCVPTG
 FQPNAAGSECEDVDECENRLACPGQECVNSPGSFQCRACPVGHHLHRGRCTDVD
 ECSSGTPCGLHGQCTNTKGSFHCSCSTGYRAPSGQPGPCADINECLEGDFCFPHG
 ECLNTDGSFTCTCAPGYRPGPRGASCLDVDECSEEDLCQSGICTNTDGSFECICPP
 GHRAGPDLASCLDIDECRERGPALCGSQRCENSPGSYRCVRDCDPGYHPGPEGT
 CDDIDECREYGAICGAQRCENTPGSYRCTPACDPGYQPTPGGGCQDVDECRNRS
 FCGAHAMCQNLPGSFQCVCDQGYEGARDGRHCVDVNECETLQGVCGSALCENVE
 GSFLCVCPNSPEEFDPMTGRCVPPRAPAGTFPGSQPQAPASPSLPARPPAPPPPR
 RPSPPRQGPVSSGRRECYFDTAAPDACDNLARNVTWQECCTVGEGWGS GCRI
 QQCPGTETA EYQSLCPHGRGYLVPSGDLSARRDVDECQLFQDQVCKSGVCVNTAP
 GYSCYCSNGFYHHAHRLECDVND ECADEEPACEGGRCVNTVGSYHCTCEPPLVLD
 GSRRRCVSNESQSLDDNLGVCWQEVGPD LVCSRPLDRQATYTECCCLYGEAWG
 MDCALCPAQDSDDFEALCNVLRPPAYGPPRPGGFGIPYEYGPDIGPPYQSLPYGPD
 LYPPPVLPYDPYPPPPGPFARREAPYGAPPFDMPDFEDDGGPYGESETPDPPSRG
 TGWPYRSRDTRGSFPEPEESSERGSYTGALSEPYEGLEAECEGILDGCPHGRCVR
 VPEGFTCDCFDGYRLDITRMSCVDVNECDEAEATSPLCVNARCVNTDGSFRCICRP
 GFAPTHQPHHCAPARPRATRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80 % as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
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Concentration	> 0.05 µg/µL as determined by Bradford protein assay method.
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Storage Buffer	50mM Tris.HCl, pH7.5, 100mM glycine, 10 % glycerol.
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GENE INFORMATION

Gene Name	Ltbp4 latent transforming growth factor beta binding protein 4 [Mus musculus (house mouse)]
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Official Symbol	Ltbp4
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Synonyms	Ltbp4; latent transforming growth factor beta binding protein 4; 2310046A13Rik; latent-transforming growth factor beta-binding protein 4; LTBP-4
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Gene ID	108075
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mRNA Refseq	NM_175641
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Protein Refseq	NP_783572
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UniProt ID	Q8K4G1
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SDS-PAGE

