

Datasheet for ABIN7563201
LIG1 Protein (AA 1-916) (His tag)



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Overview

Quantity:	1 mg
Target:	LIG1
Protein Characteristics:	AA 1-916
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LIG1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Lig1 Protein expressed in mammalian cells.
Sequence:	<p> MQRSIMSFFQ PTKEGKAKKP EKETPSSIRE KEPPPKVALK ERNQVVPESD SPVKRTGRKV AQVLSCEGED EDEAPGTPKV QKPVSDSEQS SPPSPDTCPE NSPVFNCSSP MDISPSGFPG RRTARKQLPK RTIQDTLEEQ NEDKTKTAKK RKKEETPKE SLAEAEDIKQ KEEKEGDQLI VPSEPTKSPE SVTLTKTENI PVCKAGVKLK PQEEEQSKPP ARGAKTLSSF FTPRKPAVKT EVKQEEESGTL RKEETKGTLD PANYNPSKNN YHPIEDACWK HGQKVPFLAV ARTFEKIEEV SARLKMVETL SNLLRSVVAL SPPDLLPVLY LSLNRLGPPQ QGLELGVGDG VLLKAVAQAT GRQLESIRAE VAEKGDVGLV AENSIRSTQL MLPPPPLTIS GVFTKFCDIA RLTGSASMAK KMDIIGLFLV ACRHSEARYI ARSLSGRLRL GLAEQSVLAA LAQAVSLTPP GQEFPTVVVD AGKGKTAEAR KMWLEEQGM I LKQTFCEVPD LDRIIPVLE HGLERLPEHC KLSPGVPLKP MLAHPTRGVS EVLKRFEEDV FTCEYKYDGQ RAQIHVLEGG EVKIFSRNQE DNTGKYPDII SRIPKIKHPS VTSFILDTEA VAWDREKKQI QPFQVLTTRK RKEVDASEIQ VQVCLYAFDL </p>

IYLNAGESLVR QPLSRRRQLL RENFVETEGE FVFTTSLDTK DTEQIAEFLE QSVKDSCEGL
MVKTLDVDAT YEIAKRSHNW LKLKKDYLDG VGDTLDLVVI GAYLGRGKRA GRYGGFLLAA
YDEESEELQA ICKLGTGFSD EELEEHHQSL QALVLPTRP YVRIDGAVAP DHWLDPSIVW
EVKCADLSLS PIYPAARGLV DKEKGISLRF PRFIRVRKDK QPEQATTSNQ VASLYRKQSQ
IQNQSSDLD SDVEDY **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	LIG1
Alternative Name:	Lig1 (LIG1 Products)
Background:	DNA ligase 1 (EC 6.5.1.1) (DNA ligase I) (Polydeoxyribonucleotide synthase [ATP] 1),FUNCTION: DNA ligase that seals nicks in double-stranded during DNA repair. Also involved in DNA replication and DNA recombination. {ECO:0000250 UniProtKB:P18858}.
Molecular Weight:	102.3 kDa
UniProt:	P37913

Target Details

Pathways: [Telomere Maintenance](#), [DNA Damage Repair](#), [DNA Replication](#), [Synthesis of DNA](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months