

Datasheet for ABIN7554507

## MAD1L1 Protein (AA 1-718) (His tag)



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### Overview

Quantity:	1 mg
Target:	MAD1L1
Protein Characteristics:	AA 1-718
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAD1L1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat MAD1L1 Protein expressed in mammalian cells.
Sequence:	<p>MEDLGENTMV LSTLRSLNNF ISQRVEGGSG LDISTSAPGS LQMYYQQSMQ LEERAEQIRS</p> <p>KSHLIQVERE KMQMELSHKR ARVELERAAS TSARNYEREV DRNQELLTRI RQLQEREAGA</p> <p>EKMQEQLER NRQCQQNLDA ASKRLREKED SLAQAGETIN ALKGRISELQ WSVMDQEMRV</p> <p>KRLESEKQEL QEQLDLQHKK CQEANQKIQE LQASQEARAD HEQQIKDLEQ KLSLQEQDAA</p> <p>IVKNMKSELV RLPRLERELK QLREESAHLR EMRETNGLLQ EELEGLQRKL GRQEKMQETL</p> <p>VGLELENERL LAKLQSWERL DQTMGLSIRT PEDLSRFVVE LQQRELALKD KNSAVTSSAR</p> <p>GLEKARQQLQ EELRQVSGQL LEERKKRETH EALARRLQKR VLLLTKERDG MRAILGSYDS</p> <p>ELTPAEYSPQ LTRRMREAED MVQKVHSHSA EMEAQLSQAL EELGGQKQRA DMLEMELKML</p> <p>KSQSSSAEQS FLFSREEADT LRLKVEELEG ERSRLEEEKR MLEAQLERRA LQGDYDQSRT</p> <p>KVLHMSLNPT SVARQRLRED HSQLQAECER LRGLLRAMER GGTVPADLEA AAASLPSSKE</p> <p>VAELKKQVES AELKNQRLKE VFQTKIQEFR KACYTLTGYQ IDITTENQYR LTSLYAEHPG</p>

DCLIFKATSP SGSKMQLLET EFSHTVGELI EVHLRRQDSI PAFLSSLTLE LFSRQTVA **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"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <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>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	MAD1L1
Alternative Name:	MAD1L1 ( <a href="#">MAD1L1 Products</a> )
Background:	<p>Mitotic spindle assembly checkpoint protein MAD1 (Mitotic arrest deficient 1-like protein 1) (MAD1-like protein 1) (Mitotic checkpoint MAD1 protein homolog) (HsMAD1) (hMAD1) (Tax-binding protein 181),FUNCTION: Component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate (PubMed:10049595, PubMed:20133940, PubMed:29162720). Forms a heterotetrameric complex with the closed conformation form of MAD2L1 (C-MAD2) at unattached kinetochores during prometaphase, recruits an open conformation of MAD2L1 (O-MAD2) and promotes the conversion of O-MAD2 to C-MAD2, which ensures mitotic checkpoint signaling (PubMed:29162720). {ECO:0000269 PubMed:10049595, ECO:0000269 PubMed:20133940,</p>

## Target Details

	ECO:0000269 PubMed:29162720, ECO:0000269 PubMed:36322655}., FUNCTION: [Isoform 3]: Sequesters MAD2L1 in the cytoplasm preventing its function as an activator of the mitotic spindle assembly checkpoint (SAC) resulting in SAC impairment and chromosomal instability in hepatocellular carcinomas. {ECO:0000269 PubMed:19010891}.
Molecular Weight:	83.1 kDa
UniProt:	<a href="#">Q9Y6D9</a>
Pathways:	<a href="#">M Phase</a>

## 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