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Datasheet for ABIN7317336
MAD2L1 Protein (His tag)

Overview

Quantity:	100 µg
Target:	MAD2L1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAD2L1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human MAD2L1/MAD2 Protein (His Tag)
Sequence:	Met 1-Asp 205
Characteristics:	A DNA sequence encoding the human MAD2L1 (Q13257) (Met 1-Asp 205) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 96 % as determined by reducing SDS-PAGE.

Target Details

Target:	MAD2L1
Alternative Name:	MAD2L1/MAD2 (MAD2L1 Products)
Background:	Background: Mitotic spindle assembly checkpoint protein MAD2A, also known as HsMAD2, Mitotic arrest deficient 2-like protein 1, MAD2-like protein 1, MAD2L1 and MAD2, is a nucleus and cytoplasm protein which belongs to the MAD2 family. MAD2L1 is a component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are

Target Details

properly aligned at the metaphase plate. MAD2L1 is required for the execution of the mitotic checkpoint which monitors the process of kinetochore-spindle attachment and inhibits the activity of the anaphase promoting complex by sequestering CDC20 until all chromosomes are aligned at the metaphase plate. MAD2L1 has two highly different native conformations, an inactive open conformation that cannot bind CDC20 and that predominates in cytosolic monomers, and an active closed conformation. MAD2L1 in the closed conformation preferentially dimerizes with another molecule in the open conformation, but can also form a dimer with a molecule in the closed conformation. Formation of a heterotetrameric core complex containing two molecules of MAD1L1 and of MAD2L1 in the closed conformation promotes binding of another molecule of MAD2L1 in the open conformation and the conversion of the open to the closed form, and thereby promotes interaction with CDC20.

Synonym: HSMAD2;MAD2

Molecular Weight: 25.6 kDa

UniProt: [Q13257](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, 20 % glycerol, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.