

MFG1

Mouse Monoclonal antibody(Mab) Catalog # AD80465

Product Information

Application IHC-P
Primary Accession Q9Y6D9
Reactivity Human
Host Mouse
Clonality Monoclonal
Clone Names 300E1F5
Calculated MW 83067

Additional Information

Gene ID 8379

Other Names 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, MAD1L1, MAD1,

TXBP181

Dilution IHC-P~~Ready-to-use

Storage Maintain refrigerated at 2-8°C.

Protein Information

Name MAD1L1

Synonyms MAD1, TXBP181

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).

Cellular Location Nucleus. Chromosome, centromere, kinetochore. Nucleus envelope

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome.

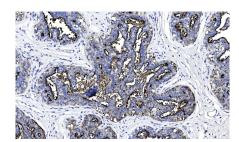
Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, spindle pole.

Note=Co- localizes with TPR at the nucleus envelope during interphase and throughout the cell cycle (PubMed:18981471, PubMed:22351768). From the beginning to the end of mitosis, it is seen to move from a diffusely nuclear distribution to the centrosome, to the spindle midzone and finally to the midbody (PubMed:9546394). Localizes to kinetochores during prometaphase (PubMed:22351768, PubMed:29162720). Does not localize to kinetochores

Tissue Location

during metaphase (PubMed:29162720) Colocalizes with NEK2 at the kinetochore (PubMed:14978040). Colocalizes with IK at spindle poles during metaphase and anaphase (PubMed:22351768). [Isoform 1]: Expressed in hepatocellular carcinomas and hepatoma cell lines (at protein level)

Images



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