

Rabbit anti-Human MAD2L2 Polyclonal Antibody | anti-MAD2L2 antibody

Anti-MAD2L2 Antibody Picoband

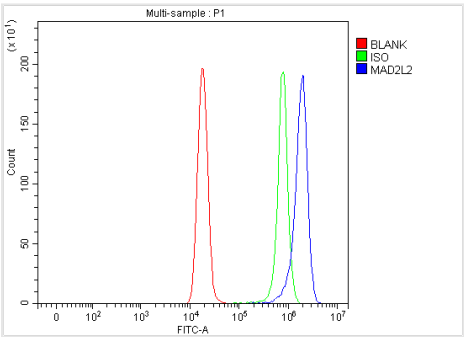
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127109	Rabbit	Human	Flow Cytometry, Functional Assay, Western Blot, Immunocytochemistry, Immunohistochemistry, Immunofluorescence, ELISA

PRODUCT SYNONYMS

MAD2L2; Polyclonal Antibody; Anti-MAD2L2 Antibody Picoband; calcitonin/calcitonin-related polypeptide; alpha; Calcitonin; Calca; Calc; anti-MAD2L2 antibody

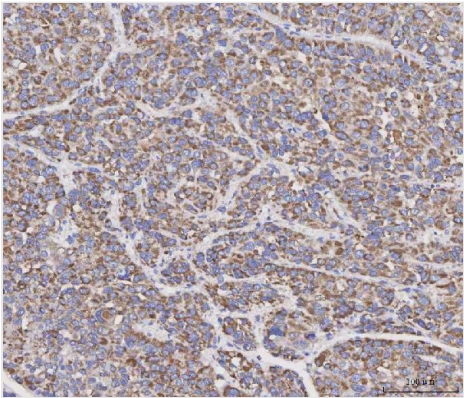
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-MAD2L2 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA
Immunogen	E coli-derived human MAD2L2 recombinant protein (Position: M1-K209).
Subcellular Localization	Secreted
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Causes a rapid but short-lived drop in the level of calcium and phosphate in blood by promoting the incorporation of those ions in the bones.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



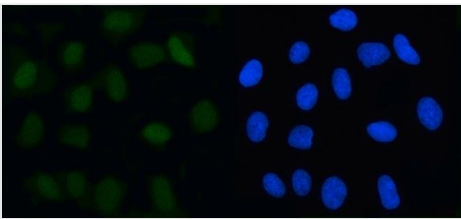
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of Hela cells using anti-MAD2L2 antibody (AAA127109).Overlay histogram showing Hela cells stained with AAA127109 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MAD2L2 Antibody (AAA127109, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



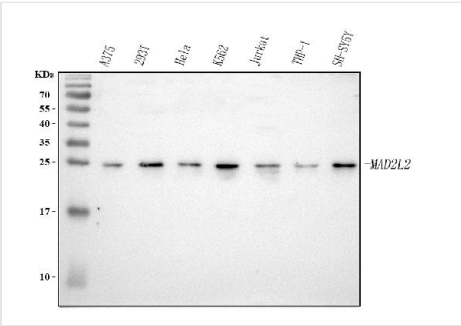
IHC (Immunohistochemistry)

Figure 2. IHC analysis of MAD2L2 using anti-MAD2L2 antibody (AAA127109).MAD2L2 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MAD2L2 Antibody (AAA127109) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IF (Immunofluorescence)

Figure 3. IF analysis of MAD2L2 using anti-MAD2L2 antibody (AAA127109).MAD2L2 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-MAD2L2 Antibody (AAA127109) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of MAD2L2 using anti-MAD2L2 antibody (AAA127109).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human A375 whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human HeLa whole cell lysates,Lane 4: human K562 whole cell lysates,Lane 5: human Jurkat whole cell lysates,Lane 6: human THP-1 whole cell lysates,Lane 7: human SH-SY5Y whole cell lysats.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MAD2L2 antigen affinity purified polyclonal antibody (#AAA127109) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MAD2L2 at approximately 24 kDa. The expected band size for MAD2L2 is at 24 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MAD2L2 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-MAD2L2 antibody	Primary Antibodies; Cardiovascular; Contractility; Neuropeptides; Neuroscience; Neurotransmitter; Vasculature

References	1. Bluteau, D., Masliah-Planchon, J., Clairmont, C., Rousseau, A., Ceccaldi, R., Dubois d'Enghien, C., Bluteau, O., Cuccuini, W., Gachet, S., Peffault de Latour, R., Leblanc, T., Socie, G., Baruchel, A., Stoppa-Lyonnet, D., D'Andrea, A. D., Soulier, J. Biallelic inactivation of REV7 is associated with Fanconi anemia. J. Clin. Invest. 126: 3580-3584, 2016. Note: Erratum: J. Clin. Invest. 127: 1117 only, 2017.2. Boersma, V., Moatti, N., Segura-Bayona, S., Peuscher, M. H., van der Torre, J., Wevers, B. A., Orthwein, A., Durocher, D., Jacobs, J. J. L. MAD2L2 controls DNA repair at telomeres and DNA breaks by inhibiting 5-prime end resection. Nature 521: 537-540, 2015. 3. Cahill, D. P., da Costa, L. T., Carson-Walter, E. B., Kinzler, K. W., Vogelstein, B., Lengauer, C. Characterization of MAD2B and other mitotic spindle checkpoint genes. Genomics 58: 181-187, 1999.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	187960073
NCBI GeneID	10459
NCBI Accession #	NP_006332.3
NCBI GenBank Nucleotide #	NM_006341.3
UniProt Accession #	Q9UI95; Q5TGW7; Q9UNA7; Q9Y6I6; B3KNE3
Molecular Weight	24,334 Da
NCBI Official Full Name	mitotic spindle assembly checkpoint protein MAD2B
NCBI Official Synonym Full Names	MAD2 mitotic arrest deficient-like 2 (yeast)
NCBI Official Symbol	MAD2L2
NCBI Official Synonym Symbols	REV7; MAD2B; POLZ2
NCBI Protein Information	mitotic spindle assembly checkpoint protein MAD2B; hREV7; REV7 homolog; MAD2-like protein 2; mitotic arrest deficient homolog-like 2; mitotic arrest deficient 2-like protein 2; polymerase (DNA-directed), zeta 2, accessory subunit; MAD2 (mitotic arrest def
UniProt Protein Name	Mitotic spindle assembly checkpoint protein MAD2B
UniProt Gene Name	MAD2L2
UniProt Synonym Gene Names	MAD2B; REV7; MAD2-like protein 2; hREV7
UniProt Entry Name	MD2L2_HUMAN

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