10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CJ119 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4727a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9BTE3
Other Accession	B1H268, Q8R3C0, A5PJM5
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB25224
Calculated MW	72980
Antigen Region	143-171

Additional Information

Gene ID	79892
Other Names	Mini-chromosome maintenance complex-binding protein, MCM-BP, MCM-binding protein, MCMBP, C10orf119
Target/Specificity	This CJ119 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 143-171 amino acids from the N-terminal region of human CJ119.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CJ119 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MCMBP
Synonyms	C10orf119

Function	Associated component of the MCM complex that acts as a regulator of DNA replication. Binds to the MCM complex during late S phase and promotes the disassembly of the MCM complex from chromatin, thereby acting as a key regulator of pre-replication complex (pre-RC) unloading from replicated DNA. Can dissociate the MCM complex without addition of ATP; probably acts by destabilizing interactions of each individual subunits of the MCM complex. Required for sister chromatid cohesion.
Cellular Location	Nucleus. Note=Associates with chromatin. Highly associated with chromatin in G1/S and S phases, reduced binding to chromatin in G2, and further decreased binding in early M phase. It then reassociates with chromatin in late M phase. Dissociates from chromatin later than component of the MCM complex

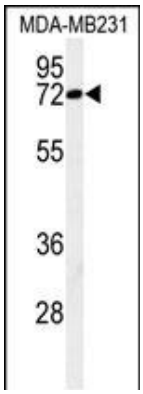
Background

CJ119 is a carefully orchestrated process involving many proteins that assemble at origins of replication. Among these are the 6 proteins of the minichromosome maintenance (MCM) complex (e.g., MCM2; MIM 116945), which form a hexamer. Each MCM subunit performs an essential function in initiation and elongation of DNA replication. MCMBP can replace MCM2 in the MCM complex, thus forming an alternative MCM hexamer.

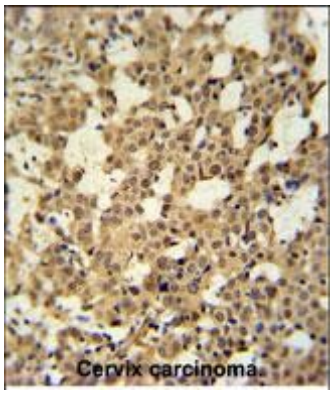
References

Takahashi, N., et al. PLoS Genet. 6 (1), E1000817 (2010)
Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)
Sakwe, A.M., et al. Mol. Cell. Biol. 27(8):3044-3055(2007)

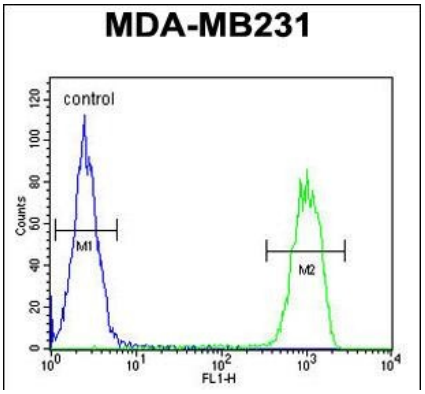
Images



Western blot analysis of CJ119 Antibody (N-term) (Cat. #AP4727a) in MDA-MB231 cell line lysates (35ug/lane). CJ119 (arrow) was detected using the purified Pab.



CJ119 Antibody (N-term) (Cat. #AP4727a) immunohistochemistry analysis in formalin fixed and paraffin embedded human cervix carcinoma tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CJ119 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



CJ119 Antibody (N-term) (Cat. #AP4727a) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.