Revision 1

Store at -20C

#80508

HJURP (D3A8Z) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	90	Rabbit IgG	#Q8NCD3	55355

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

HJURP (D3A8Z) Rabbit mAb recognizes endogenous levels of total HJURP protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly672 of human HJURP protein.

Background

CENP-A is an essential histone H3 variant that replaces canonical histone H3 in centromeric heterochromatin. The inherited localization of the centromere is specified by CENP-A (1). CENP-A deposition to the correct chromosomal location in early G1 phase is regulated by the Mis18 complex, which recruits the CENP-A assembly factor/chaperone protein HJURP (Holliday Junction Recognition Protein) (2-3).
Dimerization of HJURP is required for its activity (4), and phosphorylation by cyclin dependent kinases is required for temporal regulation of HJURP recruitment (5).
Overexpression of HJURP causes chromosome loss in yeast and mitotic defects in mammalian cells (6). Further, downregulation of HJURP expression has been associated with replicative senescence in human cells (7).
Research studies indicate that HJURP may have prognostic value in human breast cancer and high grade gliomas (8-10).

Background References

1. Ausió, J. (2006) *Brief Funct Genomic Proteomic* 5, 228-43.
2. Stellfox, M.E. et al. (2013) *Cell Mol Life Sci* 70, 387-406.
3. Wang, J. et al. (2014) *J Biol Chem* 289, 8326-36.
4. Zasadzińska, E. et al. (2013) *EMBO J* 32, 2113-24.
5. Müller, S. et al. (2014) *Cell Rep* 8, 190-203.
6. Mishra, P.K. et al. (2011) *PLoS Genet* 7, e1002303.
7. Heo, J.I. et al. (2013) *J Gerontol A Biol Sci Med Sci* 68, 914-25.
8. Hu, Z. et al. (2010) *Breast Cancer Res* 12, R18.
9. Montes de Oca, R. et al. (2015) *Mol Oncol* 9, 657-74.
10. de Tayrac, M. et al. (2013) *PLoS One* 8, e73332.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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Limited Uses

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