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HGNC Name: NA UniProt: P17967 RRID: AB_2156463 Immunogen: Yeast nuclear preparations Format: Concentrated hybridoma cell culture media plus 5mM NaN₃ Storage: Store at 4°C for short term, for longer term at -20°C. Avoid freeze/thaw cycles. Recommended dilutions: WB: 1:10,000. IF: 1:500-1:1,000

References:

1. Elrod-Erickson MJ1, Kaiser CA. Genes that control the fidelity of endoplasmic reticulum to Golgi transport identified as suppressors of vesicle budding mutations. Mol. Biol. Cell 7:1043-58 (1996).

Pdi1p Mouse Monoclonal Antibody

Applications

WB, IF, IP

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	Host	Isotype		Molecular Wt.			Species Cross-Reactivity		
	Mouse	lgG1		58.2kDa			Sc		
		38F3 Nop1p (34.5)	28F2 Nop1p (34.5)	31C4 Nsr1p (44.5)	31F5 Lys20p (47.1) Lys21p (48.6)	34B12 Nop5p (57.0)	38H8 Pdi1p (58.2)	32D6 Nsp1p (86.5) & Other Nups	No mAb
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Western blots of whole yeast protein extracts with a collection of EnCor antibodies directed against yeast proteins. The blot for MCA-38H8 is in the indicated lane, 6th from the left, and the number indicates the SDS-PAGE molecular weight in kiloDaltons.

Background:

Pdi1p is a yeast protein disulfide isomerase. It is a major endoplasmic reticulum protein with chaperone and co-chaperone activity, involved in retention of resident ER proteins. It also has a role in recognizing proteins targeted for ER-associated degradation (ERAD) and is a member of the protein disulfide isomerase family. Proteins in this family also can break disulfide bonds on substrate proteins. The protein is also known as Eps1p.

The MCA-38H8 antibody was generated by immunizing a mouse with a preparation of yeast nuclei followed by monoclonal antibody production. Western blots of yeast protein extracts probed with the MCA-38H8 antibody revealed a \sim 65kDa band, and immunofluorescence staining gave an endoplasmic reticulum staining pattern. The specificity of the antibody was determined by screening a yeast genomic expression library in phage λ -gt11. Four different clones from the library all contain different overlapping regions of Pdi1p. The Pdi1p protein is expressed in the endoplasmic reticulum and nuclear envelope of yeast cells.

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Abbreviation Key:

mAb—Monoclonal Antibody pAb—Polyclonal Antibody WB—Western Blot IF—Immunofluorescence ICC—Immunocytochemistry IHC—Immunohistochemistry E—ELISA Hu—Human Mo—Monkey Do—Dog Rt—Rat Ms—Mouse Co—Cow Pi—Pig Ho—Horse Ch—Chicken Dr—D. rerio Dm—D. melanogaster Sm—S. mutans Ce—C. elegans Sc—S. cerevisiae Sa—S. aureus Ec—E. coli.

MCA-38H8

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