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Title:	Mammalian proapoptotic factor ChaC1 and its homologues function as γ-glutamyl cyclotransferases acting specifically on glutathione
Authors:	Kaur, Amandeep (/jspui/browse?type=author&value=Kaur%2C+Amandeep) Bachhawat, A.K. (/jspui/browse?type=author&value=Bachhawat%2C+A.K.)
Keywords:	γ-glutamyl cyclotransferases 5-oxoproline apoptosis ChaC1
Issue Date:	2012
Publisher:	European Molecular Biology Organization.
Citation:	EMBO Reports, 13(12) PP. 1095-1101.
Abstract:	ChaC1 is a mammalian proapoptic protein of unknown function induced during endoplasmic reticulum stress. We show using in vivo studies and novel in vitro assays that the ChaC family of proteins function as γ-glutamyl cyclotransferases acting specifically to degrade glutathione but not other γ-glutamyl peptides. The overexpression of these proteins (but not the catalytically dead E>Q mutants) led to glutathione depletion and enhanced apoptosis in yeast. The ChaC family is conversed across all phyla and represents a new pathway for glutathione degradation in living cells, and the first cytosolic pathway for glutathione degradation in mammalian cells
Description:	Only IISERM authors are available in the record.
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