

Recombinant Human Rad21 protein ab152647

1 图像

描述	
产品名称	重组人Rad21蛋白
表达系统	Wheat germ
Accession	<u>O60216</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MFYAHFVLSKRGPLAKIWLAAHWDKKLTKAHVFECNLESSVE SIISPKVK MALRTSGHLLLGVVRIYHRKAKYLLADCNEAFIKIKMAFRPG VVDLPEEN REAYNAITLPEEFHDFDQPLPDLDDIDVAQQFSLNQSRVEE ITMREEVG NISILQENDFGDFGMDDREIMREGSAFEDDDMLVSTTTSNLL LESEQSTS NLNEKINHLEYEDQYKDDNFGEGNDGGILDDKLISNNDGGIF DDPPALSE AGVMLPEQPAHDDMEDDENVSMGGPDSPDSVDPVEPMPTMTD QTTLVPNE EEAFALEPIDITVKETKAKRKRKLIVDSVKELDSKTIRAQLS DYSDIVTT LDLAPPTKKLMMWKETGGVEKLFSLPAQPLWNNRLLKLFTRC LTPLVPED LRKRRKGGEADNLDEFLKEFENPEVPREDQQQQHQQRDVIDE PIIEEPSR LQESVMEASRTNIDESAMPPPPQGVKRKAGQIDPEPVMPPQ QVEQMEIP PVELPPEEPPNICQLIPELELLPEKEKEKEKEKEDDEEEDE DASGGDQD QEERRWNKRTQQMLHGLQRALAKTGAESISLLELCRNTNRKQ AAAKFYSF LVLKKQQAIELTQEEPYSDIATPGPRFHII
预测分子量	98 kDa including tags
氨基酸	1 to 631
标签	GST tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab152647** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

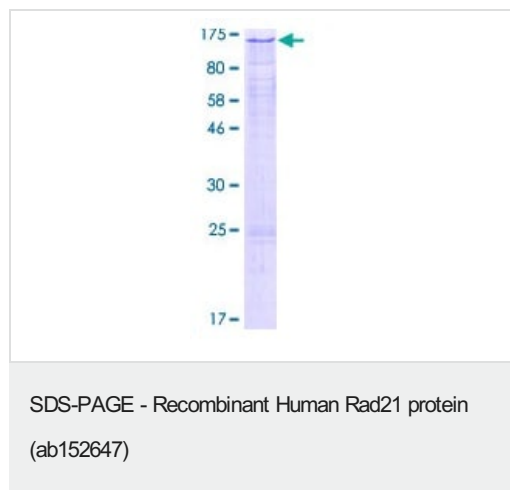
应用	Western blot
	ELISA
	SDS-PAGE
形式	Liquid
补充说明	

制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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常规信息

功能	Cleavable component of the cohesin complex, involved in chromosome cohesion during cell cycle, in DNA repair, and in apoptosis. The cohesin complex is required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At metaphase-anaphase transition, this protein is cleaved by separase/ESPL1 and dissociates from chromatin, allowing sister chromatids to segregate. The cohesin complex may also play a role in spindle pole assembly during mitosis. Also plays a role in apoptosis, via its cleavage by caspase-3/CASP3 or caspase-7/CASP7 during early steps of apoptosis: the C-terminal 64 kDa cleavage product may act as a nuclear signal to initiate cytoplasmic events involved in the apoptotic pathway.
序列相似性	Belongs to the rad21 family.
结构域	The C-terminal part associates with the head of SMC1A, while the N-terminal part binds to the head of SMC3.
翻译后修饰	Cleaved by separase/ESPL1 at the onset of anaphase. Cleaved by caspase-3 and caspase-7 at the beginning of apoptosis. The cleavage by ESPL1 and caspase-3 take place at different sites. Phosphorylated; becomes hyperphosphorylated in M phase of cell cycle. The large dissociation of cohesin from chromosome arms during prophase may be partly due to its phosphorylation by PLK.
细胞定位	Nucleus. Chromosome. Chromosome > centromere. Associates with chromatin. Before prophase it is scattered along chromosome arms. During prophase, most of cohesin complexes dissociate from chromatin probably because of phosphorylation by PLK, except at centromeres, where cohesin complexes remain. At anaphase, it is cleaved by separase/ESPL1, leading to the dissociation of the complex from chromosomes, allowing chromosome separation. Once cleaved by caspase-3, the C-terminal 64 kDa cleavage product translocates to the cytoplasm, where it may trigger apoptosis.



12.5% SDS-PAGE analysis of ab152647 stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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