

Recombinant Human CIRP protein ab116730

1 图像

描述

产品名称	重组人CIRP蛋白
表达系统	Wheat germ
Accession	<u>Q14011</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MASDEGKLFVGGLSFDTNEQSLEQVFSKYGQISEVVVVKDRE TQRSRGFG FVTFENIDDAKDAMMAMNGKSV DGRQIRVDQAGKSSDNRSRG YRGG SAGG RGFFRGGRRGRGFRGGGDRGYGGNRFESRSGGYGGSRDYY SSRSQSGG YSDRSSGGSYRDSYDSYATHNE
预测分子量	45 kDa including tags
氨基酸	1 to 172

技术指标

Our **Abpromise guarantee** covers the use of **ab116730** in the following tested applications.

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

应用	SDS-PAGE ELISA Western blot
形式	Liquid
补充说明	Protein concentration is above or equal to 0.05 mg/mL.

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.

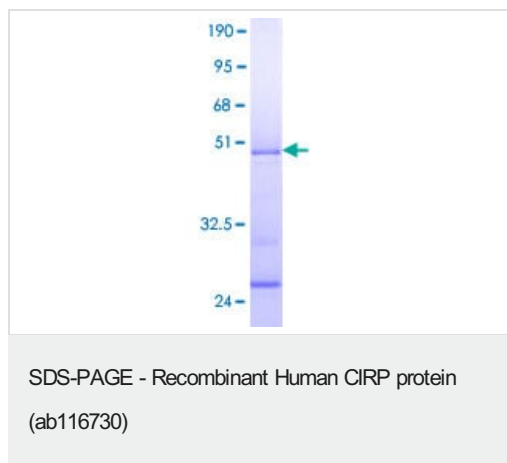
pH: 8.00

Constituents: 0.3% Glutathione, 0.79% Tris HCl

常规信息

功能	Cold-inducible mRNA binding protein that plays a protective role in the genotoxic stress response by stabilizing transcripts of genes involved in cell survival. Acts as a translational activator. Seems to play an essential role in cold-induced suppression of cell proliferation. Binds specifically to the 3'-untranslated regions (3'-UTRs) of stress-responsive transcripts RPA2 and TXN. Acts as a translational repressor (By similarity). Promotes assembly of stress granules (SGs), when overexpressed.
组织特异性	Ubiquitous.
序列相似性	Contains 1 RRM (RNA recognition motif) domain.
结构域	Both the RRM domain and the arginine, glycine (RGG) rich domain are necessary for binding to the TXN 3'-untranslated region. Both the RRM domain and the arginine, glycine (RGG) rich domain (RGG repeats) are necessary for optimal recruitment into SGs upon cellular stress. The C-terminal domain containing RGG repeats is necessary for translational repression.
翻译后修饰	Methylated on arginine residues. Methylation of the RGG motifs is a prerequisite for recruitment into SGs. Phosphorylated by CK2, GSK3A and GSK3B. Phosphorylation by GSK3B increases RNA-binding activity to the TXN 3'-UTR transcript upon exposure to UV radiation.
细胞定位	Nucleus > nucleoplasm. Cytoplasm. Translocates from the nucleus to the cytoplasm after exposure to UV radiation. Translocates from the nucleus to the cytoplasm into stress granules upon various cytoplasmic stresses, such as osmotic and heat shocks. Its recruitment into stress granules occurs in the absence of TIAR proteins.

图片



12.5% SDS-PAGE of ab116730 at approximately 45.03kDa stained with Coomassie Blue.

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