

Cold Inducible RNA Binding Protein (CIRBP) Active Protein | CIRBP active protein

Active Cold Inducible RNA Binding Protein (CIRBP)

CATALOG # AAA148138	HOST E. coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Cold Inducible RNA Binding Protein (CIRBP); Active Cold Inducible RNA Binding Protein (CIRBP); CIRP; A18HNRNP; Glycine-Rich RNA Binding Protein; CIRBP active protein

PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>95%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl, 5%Trehalose.
Applicable Applications for CIRBP active protein	Activity Assay, Cell Culture
Source	Prokaryotic expression
Residues	Met1~Glu172
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1?g (determined by the LAL method).
Predicted isoelectric point	9.7
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



WB (Western Blot)

Sample: Recombinant CIRBP, Human;Antibody: Rabbit Anti-Human CIRBP Ab



SDS_PAGE

Sample: Active recombinant CIRBP, Human



Identification

Gene Sequencing (extract



Bioactivity

CIRBP (Cold-inducible RNA-binding protein) is considered to play a protective role in the genotoxic stress response by stabilizing transcripts of genes involved in cell survival and act as a translational activator. Besides, ATXN1 (Ataxin-1) has been proven as an interactor of CIRBP. Thus a binding ELISA assay was conducted to detect the interaction of recombinant human CIRBP and recombinant human ATXN1. Briefly, CIRBP were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to ATXN1-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-CIRBP mAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of CIRBP and ATXN1 was shown in Figure 1, and this effect was in a dose dependent manner.



Sequence

ADDITIONAL INFORMATION

Product Categories/Family for CIRBP active protein	Signal Transduction
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502847
NCBI GeneID	1153
NCBI Accession #	NP_001271.1
NCBI GenBank Nucleotide #	NM_001280.2
UniProt Accession #	Q14011; B3KT17; B4E2X2
Molecular Weight	Predicted Molecular Mass: 21.7kDa Accurate Molecular Mass: 25kDa as determined by SDS-PAGE reducing conditions
NCBI Official Full Name	cold-inducible RNA-binding protein isoform 1
NCBI Official Synonym Full Names	cold inducible RNA binding protein
NCBI Official Symbol	CIRBP
NCBI Official Synonym Symbols	CIRP
NCBI Protein Information	cold-inducible RNA-binding protein
UniProt Protein Name	Cold-inducible RNA-binding protein

UniProt Gene Name	CIRBP
UniProt Synonym Gene Names	A18HNRNP; CIRP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-homo-sapiens-human-active-protein/cold-inducible-rna-binding-protein-cirbp/148138>