

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

Active Cold Inducible RNA Binding Protein (CIRBP)

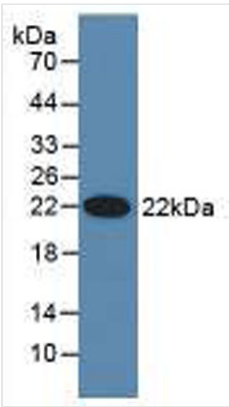
CATALOG # AAA21145	HOST E. coli	REACTIVITY Mus musculus (Mouse)	APPLICATIONS Cell Culture, Activity Assay
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PRODUCT SYNONYMS

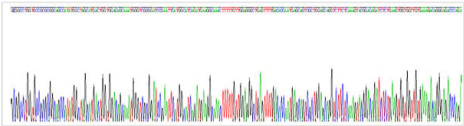
Cold Inducible RNA Binding Protein (CIRBP); Active Cold Inducible RNA Binding Protein (CIRBP); CIRP; A18HNRNP; Glycine-Rich RNA Binding Protein; CIRBP active protein

PRODUCT SPECIFICATIONS

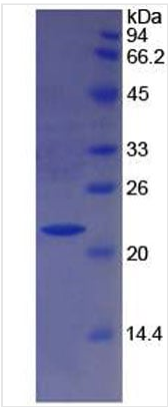
Host	E. coli
Reactivity	Mus musculus (Mouse)
Purity/Purification	>95%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl, 5%Trehalose.
Concentration	Original Concentration: 120ug/mL (varies by lot)
Applicable Applications for CIRBP active protein	Cell Culture, Activity Assay
Application Notes	(May be suitable for use in other assays to be determined by the end user.)
Source	Prokaryotic expression.
Residues	Met1~Glu172
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	9.6
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.



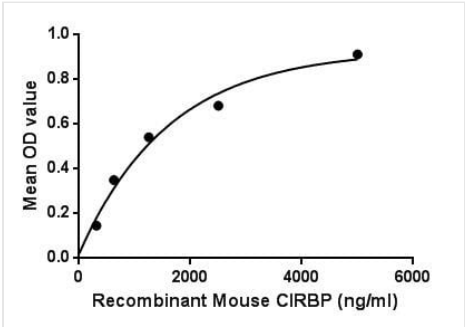
WB (Western Blot)
Sample: Recombinant CIRBP, Mouse;Antibody: Rabbit Anti-Mouse CIRBP Ab



Gene Sequencing (extract)
Sample: Active recombinant CIRBP, Mouse



SDS-PAGE
Sample: Active recombinant CIRBP, Mouse



Activity
Cold-inducible RNA-binding protein (CIRBP) plays a critical role in controlling the cellular response upon confronting a variety of cellular stresses, including short wavelength ultraviolet light, hypoxia, and hypothermia. Besides, Heterogeneous Nuclear Ribonucleoprotein A1 (HNRPA1) has been identified as an interactor of CIRBP, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse CIRBP and recombinant mouse HNRPA1. Briefly, CIRBP were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to HNRPA1-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-CIRBP pAb, 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°C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of CIRBP and HNRPA1 was shown in Figure 1, and this effect was in a dose dependent manner. Figure 1. The binding activity of CIRBP with HNRPA1.

MASDEGKLFV GGLSFDTNEQ ALEQVFSKYG QISEVTVVKD RETQSRGFG
FVTFENIDDA KDAAMAMNGK SVDGRQIRVD QAGKSSDNRS RGYRGSAGG
RGFFRGGRSR GRGFSRGGGD RGYGGGRFES RSGGYGGSRD YYASRSQGGG
YGYRSSGGSY RDSYDSYATH NE

Sequence Information

ADDITIONAL INFORMATION

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

NCBI GI #	197692397
Molecular Weight	Predicted Molecular Mass: 22.3kDa Accurate Molecular Mass: 22kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	cold inducible RNA binding protein, partial

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-mouse-mus-musculus-active-protein/cold-inducible-rna-binding-protein-cirbp/21145>