**Product datasheet**

**Anti-CIRP antibody ab106230**

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**Overview**

**Product name**  Anti-CIRP antibody  
**Description**  Goat polyclonal to CIRP  
**Host species**  Goat  
**Tested applications**  Suitable for: IP, WB, IHC-P  
**Species reactivity**  Reacts with: Mouse, Rat  
**Predicted to work with:**  Chicken, Cow, Dog, Human, Cynomolgus monkey, Rainbow trout, Chinese hamster  
**Immunogen**  Synthetic peptide corresponding to Human CIRP aa 161-172 (C terminal).  
**Sequence:**  C-RDSYDSYATHNE  
**Database link:**  NP_001271.1

**Positive control**  Recombinant Human CIRP protein (ab106903) can be used as a positive control in WB. Mouse or Rat testis lysate

**Properties**

**Form**  Liquid  
**Storage instructions**  Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.  
**Storage buffer**  Preservative: 0.02% Sodium Azide  
Constituents: 0.5% BSA, Tris buffered saline, pH 7.3  
**Purity**  Immunogen affinity purified  
**Clonality**  Polyclonal  
**Isotype**  IgG

**Applications**

Our Abpromise guarantee covers the use of ab106230 in the following tested applications.  
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
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.

Tissue specificity
Ubiquitous.

Sequence similarities
Contains 1 RRM (RNA recognition motif) domain.

Domain
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.

Post-translational modifications
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.

Cellular localization
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.

Application | Abreviews | Notes
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IP |  | 1/20.
WB | Use a concentration of 0.01 - 0.03 µg/ml. Detects a band of approximately 18 kDa (predicted molecular weight: 19 kDa).
IHC-P | Use a concentration of 3 - 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Images

Anti-CIRP antibody (ab106230) at 0.01 µg/ml + mouse testis lysate in RIPA buffer at 35 µg

Developed using the ECL technique.

**Predicted band size:** 19 kDa
ab106230 (3.8 µg/ml) staining of paraffin embedded Human Testis shows nuclear staining preferentially in type A spermatogonia. Samples steamed antigen retrieval with citrate buffer pH 6 followed by AP-staining.

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