10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-CIRBP Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1148

Specification

KD-Validated Anti-CIRBP Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q14011
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 19 kDa , observed, 19 kDa KDa**
Gene Name	**CIRBP**
Aliases	**CIRBP; Cold Inducible RNA Binding Protein; CIRP; Cold-Inducible RNA-Binding Protein; Glycine-Rich RNA Binding Protein; A18 HnRNP; Glycine-Rich RNA-Binding Protein CIRP; Cold Inducible RNA-Binding Protein; Testicular Tissue Protein Li 39; A18HNRNP**
Immunogen	**A synthesized peptide derived from CIRBP**

KD-Validated Anti-CIRBP Rabbit Monoclonal Antibody - Additional Information

Gene ID **1153**

Other Names
Cold-inducible RNA-binding protein, A18 hnRNP, Glycine-rich RNA-binding protein CIRP, CIRBP, A18HNRNP, CIRP

KD-Validated Anti-CIRBP Rabbit Monoclonal Antibody - Protein Information

Name CIRBP

Synonyms A18HNRNP, CIRP

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.

Cellular Location
Nucleus, nucleoplasm. Cytoplasm Note=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 (By similarity).

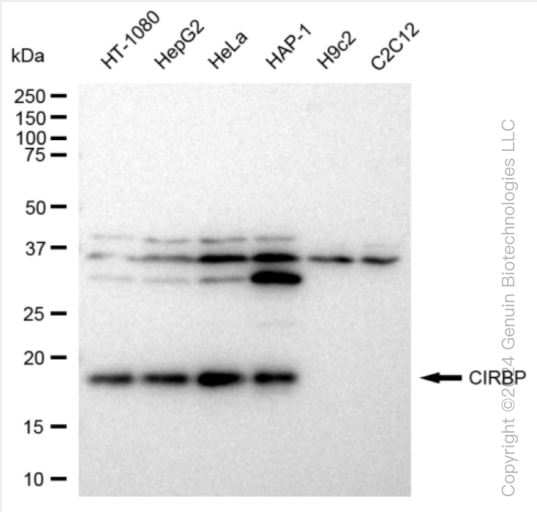
Tissue Location
Ubiquitous.

KD-Validated Anti-CIRBP Rabbit Monoclonal Antibody - Protocols

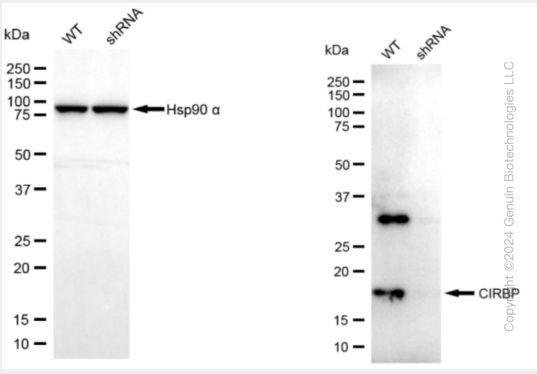
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-CIRBP Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-CIRBP antibody (Cat#AGI1148). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CIRBP antibody (Cat#AGI1148, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-CIRBP antibody (Cat#AGI1148). CIRBP expression in wild type (WT) and CIRBP shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin

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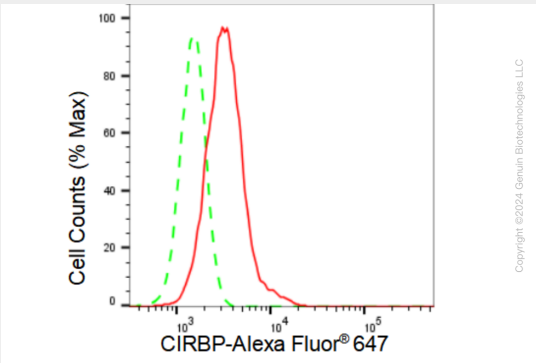
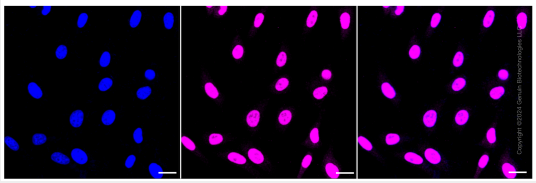
serves as a loading control. The blot was incubated with anti-CIRBP antibody (Cat#AGI1148, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of CIRBP expression in HepG2 cells using CIRBP antibody (Cat#AGI1148, 1:2,000). Green, isotype control; red, CIRBP.



Immunocytochemical staining of HepG2 cells with CIRBP antibody (Cat#AGI1148, 1:1,000). Nuclei were stained blue with DAPI; CIRBP was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.