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CIRBP Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9139b

Specification

CIRBP Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q14011

CIRBP Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 1153

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP9139b was selected from the C-term region of human CIRBP. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CIRBP Antibody (C-term) Blocking Peptide - 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.

CIRBP Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CIRBP Antibody (C-term) Blocking Peptide - Images

CIRBP Antibody (C-term) Blocking Peptide - Background

CIRBP is cold-inducible mRNA binding protein that plays a protective role in the genotoxic stress response by stabilizing transcripts of genes involved in cell survival. It acts as a translational activator and seems to play an essential role in cold-induced suppression of cell proliferation. It binds specifically to the 3'-untranslated regions (3'-UTRs) of stress-responsive transcripts RPA2 and TXN. This protein acts as a translational repressor (By similarity) and promotes assembly of stress granules (SGs), when overexpressed.

CIRBP Antibody (C-term) Blocking Peptide - References

Colinge J., et.al., Submitted (OCT-2008) to UniProtKB.Yang R.,et.al., Nucleic Acids Res. 34:1224-1236(2006).

CIRBP Antibody (C-term) Blocking Peptide - Citations

- Cold-inducible RNA-binding protein mediates cold air inducible airway mucin production through TLR4/NF-κB signaling pathway.