

Recombinant CIRBP Monoclonal Antibody

catalog number: AN302011L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

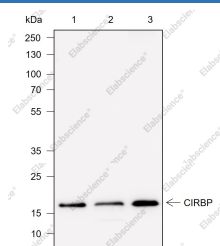
Reactivity	Human
Immunogen	Peptide. This information is proprietary to PTMab.
Host	Rabbit
Isotype	Rabbit IgG
Clone	C311632
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications

Recommended Dilution

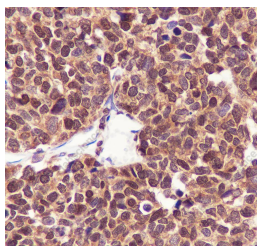
WB	1:1000
IHC	1:500-1:1000
IF	1:50

Data

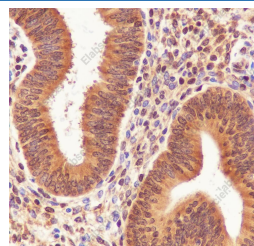


Western Blot with CIRBP Monoclonal Antibody at dilution of 1:1000. Lane 1: HEK-293, Lane 2: SH-SY 5Y, Lane 3: SK-MEL-28

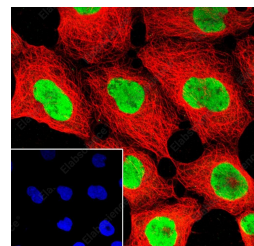
Observed-MW: 16 kDa
Calculated-MW: 19 kDa



Immunohistochemistry of paraffin-embedded Human breast cancer using CIRBP Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Human endometrium using CIRBP Monoclonal Antibody at dilution of 1:1000.



Immunofluorescent analysis of (4% Paraformaldehyde) fixed 293T cells using anti-CIRBP Monoclonal Antibody at dilution of 1:50.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

For Research Use Only

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Rev. V1.2

Cold-induced RNA-binding protein (CIRBP) is a 172-residue, multifunctional sensor protein that was first isolated as a protein induced in mouse fibroblasts cultured at 32°C. Conversely, CIRBP expression decreases in cells or tissues subjected to increased temperature. The CIRBP protein is composed of an amino-terminal RNA-binding domain and a carboxyl-terminal, glycine-rich domain. Stressful stimuli, such as hypoxia, heat shock, osmotic shock, or oxidative conditions, lead to translocation of CIRBP from the nucleus to cytoplasmic stress granules through a mechanism involving CIRBP methylation-dependent nuclear export. CIRBP plays a role in regulating apoptosis and preserving the stemness of neural stem cells at moderately low temperatures. Research studies demonstrate that CIRBP contributes to the regulation of circadian rhythm through post-translational modulation of CLOCK expression.