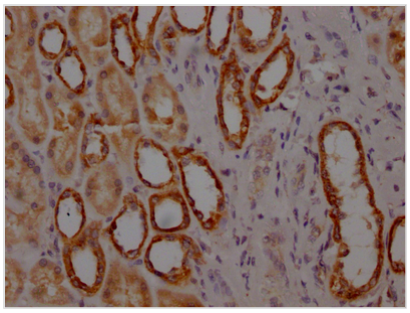
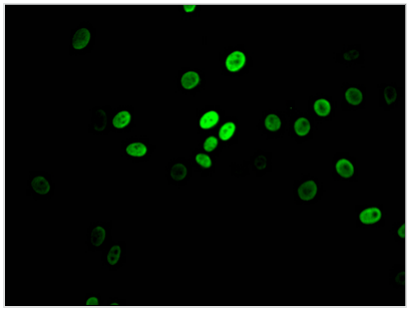
MYBBP1A Recombinant Monoclonal Antibody

Product Code	CSB-RA978157A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9BQG0
Immunogen	A synthesized peptide derived from human MYBBP1A
Species Reactivity	Human
Tested Applications	ELISA, IHC, IF; Recommended dilution: IHC:1:50-1:200, IF:1:20-1:200
Relevance	May activate or repress transcription via interactions with sequence specific DNA-binding proteins. Repression may be mediated at least in part by histone deacetylase activity (HDAC activity). Acts as a corepressor and in concert with CRY1, represses the transcription of the core circadian clock component PER2. Preferentially binds to dimethylated histone H3 'Lys-9' (H3K9me2) on the PER2 promoter.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling; Cancer; Signal transduction
Gene Names	MYBBP1A
Clone No.	3A1

Image



IHC image of CSB-RA978157A0HU diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Immunofluorescence staining of HepG2 Cells with CSB-RA978157A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4?. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

To create the MYBBP1A recombinant monoclonal antibody, several steps are necessary. These include the harvest of the MYBBP1A monoclonal antibody, MYBBP1A monoclonal antibody gene sequencing, vector construction, and transfection of the constructed MYBBP1A monoclonal antibody gene-carrying vector into a host cell line for culture. The synthesized peptide from human MYBBP1A is used as an immunogen in the MYBBP1A monoclonal antibody production. The MYBBP1A recombinant monoclonal antibody is purified from the cell culture supernatant, and its specificity is evaluated through ELISA, IHC, and IF tests. It only reacts with human MYBBP1A protein.

The MYBBP1A is a transcriptional co-regulator that plays important roles in the regulation of gene expression, cell cycle progression, DNA repair, and apoptosis. MYBBP1A is involved in the regulation of gene expression by acting as a transcriptional co-regulator. It plays a role in the regulation of the cell cycle by interacting with E2F transcription factors. MYBBP1A interacts with the DNA repair protein Ku70 and is required for efficient non-homologous end-joining (NHEJ) repair of DNA double-strand breaks. Dysregulation of MYBBP1A activity has been implicated in various diseases, including cancer and neurological disorders.