



CLSPN Monoclonal Antibody

Catalog No	YP-mAb-04908
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CLSPN
Immunogen	Synthesized peptide derived from human protein . at AA range: 10-90
Specificity	CLSPN Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CLSPN;hClaspin;Claspin (hClaspin)
Observed Band	147kD
Calculated Molecular Weight	147kD
Cell Pathway	Nucleus .
Tissue Specificity	Bone marrow,Epithelium,PCR rescued clones,Skin,
Function	domain:The C-terminus of the protein contains 3 potential CHEK1-binding motifs (CKB motifs). Potential phosphorylation sites within CKB motif 1 and CKB motif 2 are required for interaction with CHEK1.,function:Required for checkpoint mediated cell cycle arrest in response to inhibition of DNA replication or to DNA damage induced by both ionizing and UV irradiation. Adapter protein which binds to BRCA1 and the checkpoint kinase CHEK1 and facilitates the ATR-dependent phosphorylation of both proteins. Can also bind specifically to branched DNA structures and may associate with S-phase chromatin following formation of the pre-replication complex (pre-RC). This may indicate a role for this protein as a sensor which monitors the integrity of DNA replication forks., induction:Expression peaks at S/G2 phases of the cell cycle., PTM:Phosphorylated during activation of DNA replication or DNA damage



Background

The product of this gene is an essential upstream regulator of checkpoint kinase 1 and triggers a checkpoint arrest of the cell cycle in response to replicative stress or DNA damage. The protein is also required for efficient DNA replication during a normal S phase. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010],

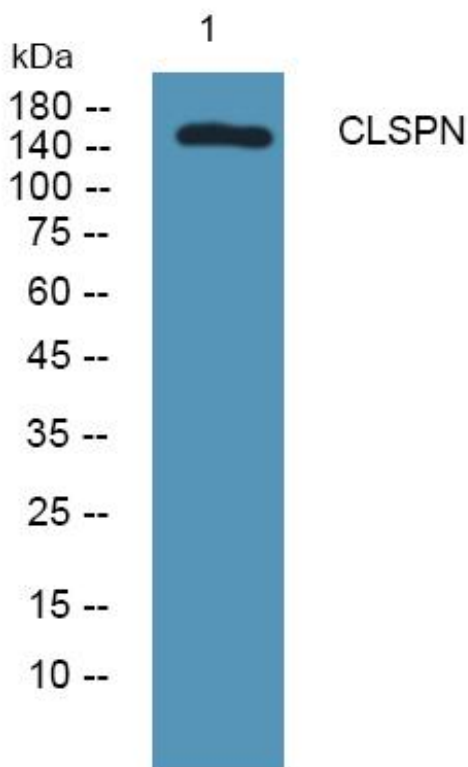
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using CLSPN Monoclonal Antibody