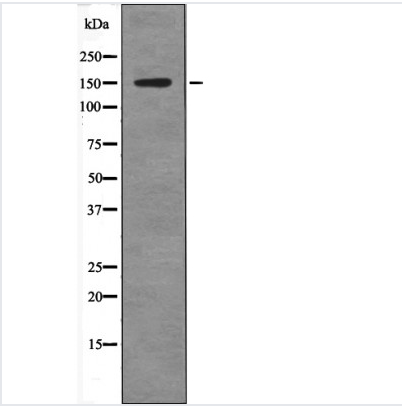
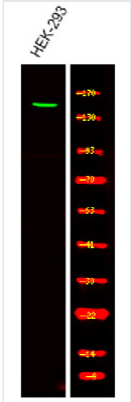
Claspin (CLSPN) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Claspin (CLSPN), Polyclonal Antibody
Full Product Name	Claspin (Phospho-Ser30) Antibody
Product Gene Name	anti-CLSPN antibody
Product Synonym Names	CLSPN; Claspin homolog; Claspin; HClaspin
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1 mg/ml (lot specific)
Specificity	Claspin (Phospho-Ser30) Antibody detects endogenous levels of Claspin only when phosphorylated at Ser30
Preparation and Storage	Store at -20°C
Molecular Weight	Calculated MW: 150kd
OMIM	AF297866 mRNA
3D Structure	ModBase 3D Structure for Q9HAW4
Purity	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Immunogen	A synthesized peptide derived from human Claspin (Phospho-Ser30)
Immunogen Type	Peptide
Modification	Phospho
Target Name	Claspin
Target Species	Human
Product Categories/Family for anti-CLSPN antibody	Phospho-specific Ab
Applications Tested/Suitable for anti-CLSPN antibody	Western Blot (WB)
Application Notes for anti-CLSPN antibody	Western Blot: 1:1000
Related Product Information for anti-CLSPN antibody	MBS9416674 is an antibody targeting CLSPN. Also known as Claspin (Phospho-Ser30) Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CLSPN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CLSPN antibody
Western blot analysis Claspin (Phospho-Ser30) using COLO205 whole cell lysates



Western Blot (WB) of anti-CLSPN antibody
Western Blot analysis of lysates of HEK293, using primary antibody at 1:1000 dilution.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLSPN. It may not necessarily be applicable to this product.

NCBI GI #	299522984
NCBI GeneID	63967
NCBI Accession #	NP_001177410.1
UniProt Primary Accession #	Q9HAW4
UniProt Secondary Accession #	Q1RMC6; Q2KHM3; Q5VYG0; Q6P6H5; Q8IWI1; A6NFL4
UniProt Related Accession #	Q9HAW4
GenBank Nucleotide #	NM_001190481.1
NCBI Official Full Name	claspin isoform 2
NCBI Official Synonym Full Names	claspin
NCBI Official Symbol	CLSPN
UniProt Protein Name	Claspin
Protein Family	Claspin
UniProt Gene Name	CLSPN
UniProt Synonym Gene Names	hClaspin
UniProt Entry Name	CLSPN_HUMAN
NCBI Protein Information	claspin
NCBI Summary for CLSPN	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]

UniProt Comments for CLSPN	claspin: 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. Interacts with CHEK1 when phosphorylated. Interacts with ATR and RAD9A and these interactions are slightly reduced during checkpoint activation. Interacts with BRCA1 and this interaction increases during checkpoint activation. Protein type: Actin-binding; Cell cycle regulation Chromosomal Location of Human Ortholog: 1p34.2 Cellular Component: cytoplasm; nucleoplasm Molecular Function: protein binding Biological Process: activation of protein kinase activity; cell structure disassembly during apoptosis; DNA damage checkpoint; DNA replication; G2/M transition DNA damage checkpoint; mitotic cell cycle DNA replication checkpoint; peptidyl-serine phosphorylation
Research Articles on CLSPN	**1.** Functional analyses indicat that the expression TopBP1 and Claspin positively affects the survival of brain cancer cells after exposure to radiation.
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