

Rabbit Claspin Polyclonal Antibody | anti-CLSPN antibody

Phospho-Claspin (Ser30) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329794	Rabbit	Human, Mouse, Rat Predicted Reactivity: Bovine (88%), Horse (88%), Sheep (88%), Rabbit (88%), Dog (88%), Xenopus (88%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Claspin; Polyclonal Antibody; Phospho-Claspin (Ser30) Antibody; claspin homolog (Xenopus laevis); Claspin homolog; CLSPN; CLSPN protein; CLSPN_HUMAN; hClaspin; Hu Claspin; anti-CLSPN antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Bovine (88%), Horse (88%), Sheep (88%), Rabbit (88%), Dog (88%), Xenopus (88%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Claspin (Ser30) Antibody detects endogenous levels of Claspin only when phosphorylated at Ser30.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CLSPN antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Claspin around the phosphorylation site of Ser30.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated. Undergoes ATR-dependent phosphorylation by CHEK1 during activation of DNA replication or damage checkpoints. Phosphorylation by CSNK1G1/CK1 promotes CHEK1 binding. Ubiquitinated by the anaphase promoting complex/cyclosome (APC/C) during G1 phase, leading to its degradation by the proteasome. Ubiquitination is mediated via its interaction with FZR1/CDH1. Following DNA damage, it is deubiquitinated by USP28 in G2 phase, preventing its degradation.
Subunit Structure	Interacts (phosphorylation-dependent) with CHEK1; regulates CLSPN function in checkpoint for DNA damage and replication. Interacts with ATR and RAD9A and these interactions are slightly reduced during checkpoint activation. Interacts with BRCA1 and this interaction increases during checkpoint activation. Interacts with TIMELESS.
Similarity	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. Belongs to the claspin family.
Subcellular Location	Nucleus.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/200 staining Human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/200 staining Mouse brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of Claspin (Phospho-Ser30) using COLO205 whole cell lysates. -/+ means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-CLSPN antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	92098065
NCBI GeneID	63967
UniProt Accession #	Q9HAW4; Q1RMC6; Q2KHM3; Q5VYG0; Q6P6H5; Q8IWI1; A6NFL4
Molecular Weight	144,167 Da
NCBI Official Full Name	CLSPN protein
NCBI Official Synonym Full Names	claspin
NCBI Official Symbol	CLSPN
NCBI Protein Information	claspin
UniProt Protein Name	Claspin
UniProt Gene Name	CLSPN
UniProt Synonym Gene Names	hClaspin

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/claspin-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329794>