ARG51827
anti-Cyclin B1 phospho (Ser147) antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Cyclin B1 phospho (Ser147)
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Cyclin B1
Species	Human
Immunogen	Peptide sequence around phosphorylation site of Serine 147 (A-F-S(p)-D-V) derived from Human Cyclin B1.
Conjugation	Un-conjugated
Alternate Names	G2/mitotic-specific cyclin-B1; CCNB

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100 - 1:200
IHC-P	1:50 - 1:100
WB	1:500 - 1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

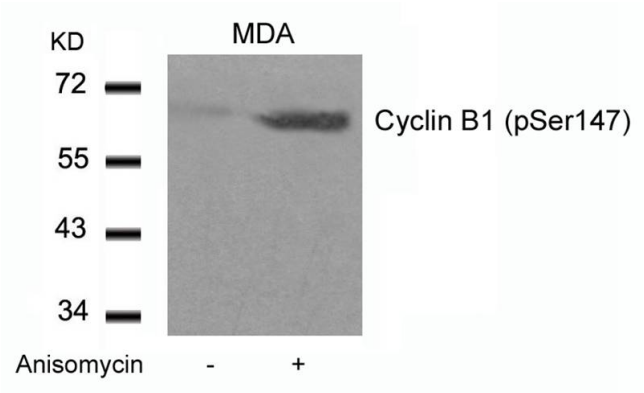
Form	Liquid
Purification	Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Buffer	PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

	cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

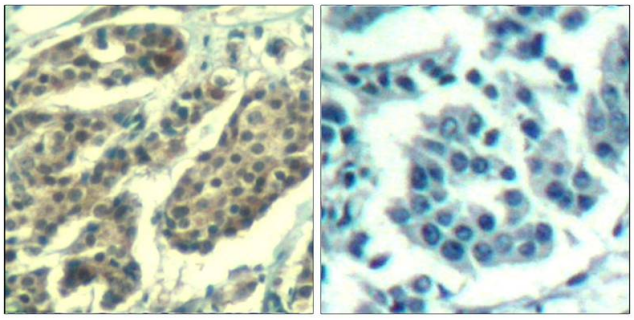
Database links	GeneID: 891 Human Swiss-port # P14635 Human
Gene Symbol	CCNB1
Gene Full Name	cyclin B1
Background	The protein encoded by Cyclin B1 is a regulatory protein involved in mitosis. The gene product complexes with p34(cdc2) to form the maturation-promoting factor (MPF). Two alternative transcripts have been found, a constitutively expressed transcript and a cell cycle-regulated transcript, that is expressed predominantly during G2/M phase. The different transcripts result from the use of alternate transcription initiation sites.
Function	Essential for the control of the cell cycle at the G2/M (mitosis) transition. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Gene Regulation antibody; Cell Cycle Study antibody
Calculated Mw	48 kDa
PTM	Ubiquitinated by the SCF(NIPA) complex during interphase, leading to its destruction. Not ubiquitinated during G2/M phases. Phosphorylated by PLK1 at Ser-133 on centrosomes during prophase: phosphorylation by PLK1 does not cause nuclear import. Phosphorylation at Ser-147 was also reported to be mediated by PLK1 but Ser-133 seems to be the primary phosphorylation site.

Images



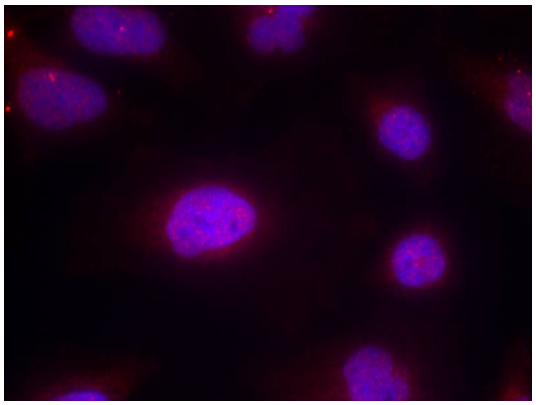
ARG51827 anti-Cyclin B1 phospho (Ser147) antibody WB image

Western blot: Extracts from MDA cells untreated or treated with Anisomycin stained with ARG51827 anti-Cyclin B1 phospho (Ser147) antibody.



ARG51827 anti-Cyclin B1 phospho (Ser147) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma tissue stained with ARG51827 anti-Cyclin B1 phospho (Ser147) antibody (left) or the same antibody preincubated with blocking peptide (right).



ARG51827 anti-Cyclin B1 phospho (Ser147) antibody ICC/IF image

Immunofluorescence: methanol-fixed HeLa cells stained with ARG51827 anti-Cyclin B1 phospho (Ser147) antibody.