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Phospho-SEPARIN(S1126) Antibody Blocking peptide

Synthetic peptide
Catalog # BP3247a

Specification

Phospho-SEPARIN(S1126) Antibody Blocking peptide - Product Information

Primary Accession Q14674

Phospho-SEPARIN(S1126) Antibody Blocking peptide - Additional Information

Gene ID 9700

Other Names
Separin, Caspase-like protein ESPL1, Extra spindle poles-like 1 protein, Separase, ESPL1, ESP1, KIAA0165

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP3247a was selected from the 1119-1133 <CR>region of human Phospho-SEPARIN-S1126. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Phospho-SEPARIN(S1126) Antibody Blocking peptide - Protein Information

Name ESPL1

Synonyms ESP1, KIAA0165

Function
Caspase-like protease, which plays a central role in the chromosome segregation by cleaving the SCC1/RAD21 subunit of the cohesin complex at the onset of anaphase. During most of the cell cycle, it is inactivated by different mechanisms.

Cellular Location
Cytoplasm. Nucleus.

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Phospho-SEPARIN(S1126) Antibody Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

Phospho-SEPARIN(S1126) Antibody Blocking peptide - Images

Phospho-SEPARIN(S1126) Antibody Blocking peptide - Background

The metaphase-to-anaphase transition is the final discrete event in duplication and separation of the genetic material of the cell. Its timing is regulated by the activation of the anaphase-promoting complex (APC). In both budding and fission yeast, the degradation of the Pds1 or Cut2 protein, respectively, is required for the onset of sister chromatid separation. Both proteins are APC substrates. Pds1 and Cut2 proteins associate with the yeast separin proteins Esp1 and Cut1, respectively, and prevent the separins from promoting chromatid separation. Pds1 and Cut2 are also called anaphase inhibitors or securins

Phospho-SEPARIN(S1126) Antibody Blocking peptide - References

Chestukhin, A., et al., Proc. Natl. Acad. Sci. U.S.A. 100(8):4574-4579 (2003).Waizenegger, I., et al., Curr. Biol. 12(16):1368-1378 (2002).Chen, F., et al., J. Biol. Chem. 277(19):16775-16781 (2002).Hauf, S., et al., Science 293(5533):1320-1323 (2001).Zou, H., et al., Science 285(5426):418-422 (1999).