

## ESPL1(Phospho-S1126/801) antibody

Catalog No: #12175

Package Size: #12175-1 50ul #12175-2 100ul

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## Description

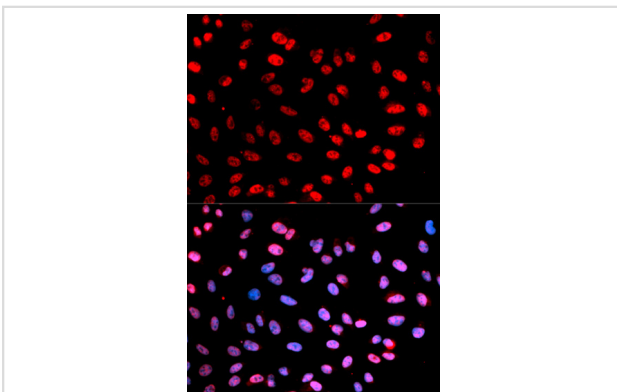
Product Name	ESPL1(Phospho-S1126/801) antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IF
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of ESPL1 only when phosphorylated at serine 1126.
Immunogen Type	Peptide
Immunogen Description	A phospho specific peptide corresponding to residues surrounding S1126 of human ESPL1.
Target Name	ESPL1
Modification	Phospho
Other Names	ESP1; SEPA
Accession No.	Swiss-Prot#: Q14674NCBI Gene ID: 9700
SDS-PAGE MW	233kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

## Application Details

Western blotting: □1:500 - 1:2000

Immunofluorescence: □1:20 - 1:100

## Images



Immunofluorescence analysis of U2OS cell using Phospho-ESPL1-S1126 antibody. Blue: DAPI for nuclear staining.

## Background

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Stable cohesion between sister chromatids before anaphase and their timely separation during anaphase are critical for chromosome inheritance. In vertebrates, sister chromatid cohesion is released in 2 steps via distinct mechanisms. The first step involves phosphorylation of STAG1 (MIM 604358) or STAG2 (MIM 300826) in the cohesin complex. The second step involves cleavage of the cohesin subunit SCC1 (RAD21; MIM 606462) by ESPL1, or separase, which initiates the final separation of sister chromatids.

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.