Product Datasheet

ESPL1(Phospho-S1126/801) antibody

Catalog No: #12175

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

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

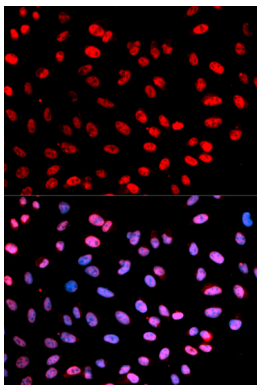
Product Name	ESPL1(Phospho-S1126/801) antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB,IF
Species Reactivity	Human
Specificity	The antibody detects endogenous level of ESPL1 only when phosphorylated at serine 1126 and 801.
Immunogen Type	Peptide
Immunogen Description	A phospho specific peptide corresponding to residues surrounding S1126 and S801 of human ESPL1.
Target Name	ESPL1
Modification	Phospho
Other Names	ESP1; SEPA
Accession No.	Swiss-Prot#: Q14674NCBI Gene ID: 9700
Uniprot	Q14674
GeneID	9700;
SDS-PAGE MW	233kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

WB□1:500 - 1:2000

IF□1:20 - 1:100

Images



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

Background

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.

Note: This product is for in vitro research use only