

Anti-Phospho-SMC1A (Ser957) Antibody (1T770)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	1T770
Purification:	Affinity-chromatography

Applications

Western Blot	-Positive WB detected in 293 whole cell lysate(treated with Calyculin A or not)
Verified Activity:	-All lanes Phospho-SMC1A antibody at 1.11µg/ml
	-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution
	-Predicted band size: 160 KDa
	-Observed band size: 160 KDa
Application:	ELISA,WB
Recommended	WB:1:500-1:5000.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human Phospho-SMC1A (S957)
Antigen Species:	Human
Gene ID:	8243
Uniprot ID:	Q14683
Synonyms:	SMC1;DXS423E;SMC-1-alpha;SMC1A (p-S957);p-SMC1A (S957);KIAA0178;SMC1L1;SMC1A (p-Ser957);Phospho-SMC1A (S957);SMC-1A;p-SMC1A (Ser957);SB1.8;Structural maintenance of chromosomes protein 1A;SMC protein 1A
Biology Area:	Cell Biology

Research Background

Involved in chromosome cohesion during cell cycle and in DNA repair. Central component of cohesin complex. The cohesin complex is required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. The cohesin complex may also play a role in spindle pole assembly during mitosis. Involved in DNA repair via its interaction with BRCA1 and its related phosphorylation by ATM, or via its phosphorylation by ATR. Works as a downstream effector both in the ATM/NBS1 branch and in the ATR/MSH2 branch of S-phase checkpoint.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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