

Anti-SMC1A Antibody (4E88)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4E88
Purification:	Affinity-chromatography

Applications

Verified Activity:	<p>1. Western Blot</p> <ul style="list-style-type: none">-Positive WB detected in: Hela whole cell lysate, K562 whole cell lysate, 293T whole cell lysate, Jurkat whole cell lysate, A549 whole cell lysate, HL60 whole cell lysate, MCF-7 whole cell lysate-All lanes: SMC1A antibody at 1:1500-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution-Predicted band size: 144 kDa-Observed band size: 144 kDa
	<p>2. IHC image of TMAH-01111 diluted at 1:100 and staining in paraffin-embedded human ovarian cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.</p>
	<p>3. IHC image of TMAH-01111 diluted at 1:100 and staining in paraffin-embedded human glioma cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.</p>
Application:	ELISA, WB, IHC
Recommended	WB:1:500-1:5000; IHC:1:50-1:200.

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 SMC1
Antigen Species:	Human
Gene ID:	8243
Uniprot ID:	Q14683
Synonyms:	SMC-1A;DXS423E;SMC protein 1A;SMC-1-alpha;SMC1;Sb1.8;SMC1L1;KIAA0178;Structural maintenance of chromosomes protein 1A
Biology Area:	Epigenetics and Nuclear Signaling, 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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