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Datasheet for ABIN7127813 Recombinant anti-SMC1A antibody

3 Images



Overview

Quantity:	100 μL
Target:	SMC1A
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This SMC1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

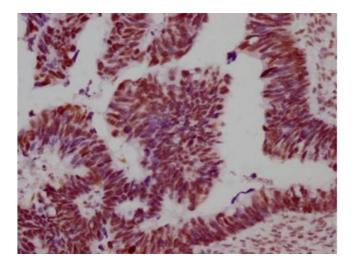
Immunogen:	A synthesized peptide derived from human SMC1
Clone:	8C11
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Affinity-chromatography

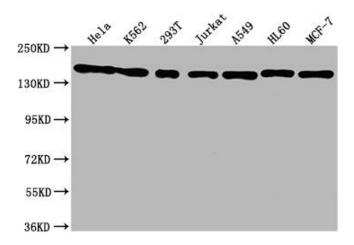
Target Details

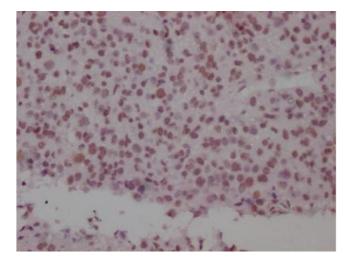
Target:	SMC1A
Alternative Name:	SMC1A (SMC1A Products)
Background:	Background: Involved in chromosome cohesion during cell cycle and in DNA repair. Central

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	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 proteinaceou
	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.
	Aliases: Structural maintenance of chromosomes protein 1A (SMC protein 1A) (SMC-1-alpha)
	(SMC-1A) (Sb1.8), SMC1A, DXS423E KIAA0178 SB1.8 SMC1 SMC1L1
UniProt:	Q14683
Pathways:	Stem Cell Maintenance
Application Details	
Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.







Immunohistochemistry

Image 1. IHC image of ABIN7127813 diluted at 1:100 and staining in paraffin-embedded human ovarian cancer performed on a Leica BondTM 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 30 min 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.

Western Blotting

Image 2. Western Blot 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 lgG at 1/50000 dilution Predicted band size: 144 kDa Observed band size: 144 kDa

Immunohistochemistry

Image 3. IHC image of ABIN7127813 diluted at 1:100 and staining in paraffin-embedded human glioma cancer performed on a Leica BondTM 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 30 min 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.

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