antibodies.com

Datasheet for ABIN2780766 anti-SMC1A antibody (C-Term)

4 Images



Overview

Quantity:	100 μL
Target:	SMC1A
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Rabbit, Guinea Pig, Horse, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMC1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human SMC1A
Sequence:	VISLKEEFYT KAESLIGVYP EQGDCVISKV LTFDLTKYPD ANPNPNEQ
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 77%
Characteristics:	This is a rabbit polyclonal antibody against SMC1A. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified
Target Details	
Target:	SMC1A

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN2780766 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Target Details		
Alternative Name:	SMC1A (SMC1A Products)	
Background:	The cohesin multiprotein complex is required for sister chromatid cohesion. This complex is	
	composed partly of two structural maintenance of chromosomes (SMC) proteins, SMC3 and	
	either SMC1L2 or the protein encoded by SMC1A gene. Most of the cohesin complexes	
	dissociate from the chromosomes before mitosis, although those complexes at the	
	kinetochore remain. Therefore, the SMC1A protein is thought to be an important part of	
	functional kinetochores. In addition, this protein interacts with BRCA1 and is phosphorylated b	
	ATM, indicating a potential role for this protein in DNA repair. Proper cohesion of sister	
	chromatids is a prerequisite for the correct segregation of chromosomes during cell division.	
	The cohesin multiprotein complex is required for sister chromatid cohesion. This complex is	
	composed partly of two structural maintenance of chromosomes (SMC) proteins, SMC3 and	
	either SMC1L2 or the protein encoded by this gene. Most of the cohesin complexes dissociate	
	from the chromosomes before mitosis, although those complexes at the kinetochore remain.	
	Therefore, the encoded protein is thought to be an important part of functional kinetochores. In	
	addition, this protein interacts with BRCA1 and is phosphorylated by ATM, indicating a potentia	
	role for this protein in DNA repair. This gene, which belongs to the SMC gene family, is located	
	in an area of the X-chromosome that escapes X inactivation. Publication Note: This RefSeq	
	record includes a subset of the publications that are available for this gene. Please see the	
	Entrez Gene record to access additional publications.	
	Alias Symbols: CDLS2, DKFZp686L19178, DXS423E, KIAA0178, MGC138332, SB1.8, SMC1,	
	SMC1L1, SMC1alpha, SMCB	
	Protein Interaction Partner: UBC, SUM02, STAU1, RPA3, RPA2, RPA1, RNF2, EED, KIF13A,	
	ARMCX3, CDK20, ANKRD28, HDAC11, HDAC8, SMC1A, RFC1, POLA1, MCM7, MCM6,	
	METTL21B, WHSC1, NOTCH1, SF3B3, ACIN1, SMC2, RBM14, SMC3, RAD21, NSMCE2, FBX06	
	CUL3, NEDD8, CDK2, CEBPA, CDK8, NIPBL, MDC1, POL	
	Protein Size: 1233	
Molecular Weight:	143 kDa	
Gene ID:	8243	
NCBI Accession:	NM_006306, NP_006297	
UniProt:	Q14683	
Pathways:	Stem Cell Maintenance	

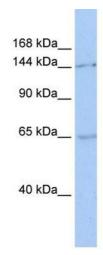
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN2780766 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Application Details		
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.	
Comment:	Antigen size: 1233 AA	
Restrictions:	For Research Use only	

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

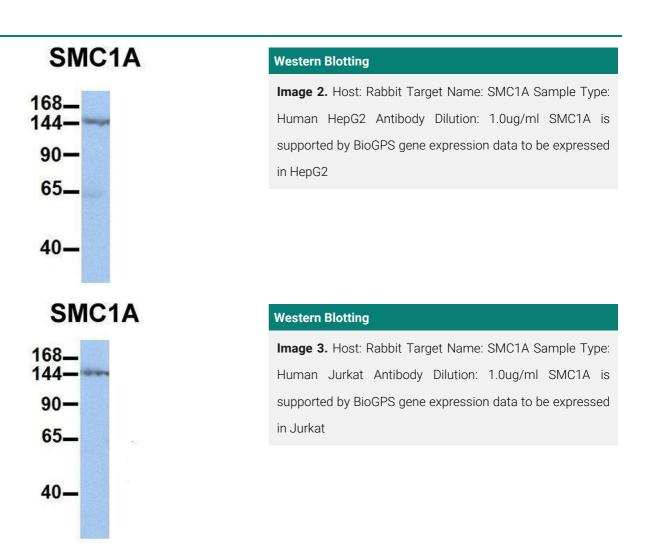
Images



Western Blotting

Image 1. WB Suggested Anti-SMC1A Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500 Positive Control: 293T cell Iysate SMC1A is supported by BioGPS gene expression data to be expressed in HEK293T

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN2780766 | 09/11/2023 | Copyright antibodies-online. All rights reserved.



Please check the product details page for more images. Overall 4 images are available for ABIN2780766.