

Datasheet for ABIN6972756
anti-SMC3 antibody (C-Term)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µL
Target:	SMC3
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	This SMC3 antibody was raised against a peptide in the C-terminal region of human SMC3.
Isotype:	IgG
Characteristics:	<p>The Structural Maintenance of Chromosomes (SMC) family proteins play critical roles in various nuclear events that require structural changes of chromosomes, including mitotic chromosome organization, DNA recombination and repair and global transcriptional repression. SMC3 is a component of the cohesin complex that plays an essential role during chromatid segregation. SMC3 is also involved in DNA recombination and repair, mitotic chromosome organization and microtubule-mediated intracellular transport. SMC3 is acetylated during replication, which is essential for cohesion, and is phosphorylated by ATM subsequent to DNA double strand breakage. SMC3 is frequently elevated in human colon carcinoma and overexpression of the protein transforms fibroblasts. SMC3 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Western blot, it has been shown to react with Human samples.</p>

Product Details

Purification: Affinity Purified

Target Details

Target: SMC3

Alternative Name: SMC3 ([SMC3 Products](#))

Molecular Weight: 150 kDa

NCBI Accession: [NP_005436](#)

Pathways: [Stem Cell Maintenance](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

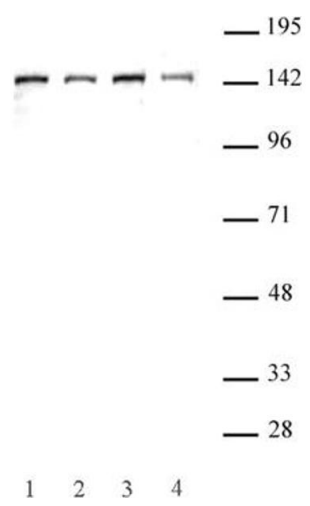
Buffer: Purified IgG in PBS with 30 % glycerol and 0.035 % sodium azide.

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

Storage Comment: Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



Western Blotting

Image 1. SMC3 antibody (pAb) tested by Western blot. Detection of SMC3 by Western blot analysis. Lane 1: Nuclear extract of HeLa cells (20 µg). Lane 2: Nuclear extract of Hep G2 cells (20 µg). Lane 3: Nuclear extract of HEK293 cells (20 µg). Lane 4: Nuclear extract of U2OS cells (20 µg). All were probed with SMC3 antibody (pAb) at a 1:500 dilution.