

anti-Human SCP3 Polyclonal Antibody | anti-SCP3 antibody

Anti-SCP3 Antibody

CATALOG # AAA46241	REACTIVITY Human	APPLICATIONS Western Blot
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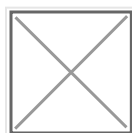
PRODUCT SYNONYMS

SCP3; Polyclonal Antibody; Anti-SCP3 Antibody; Synaptonemal complex protein 3; choline phosphotransferase 1; chpt1; COR 1; COR1; MGC71888; RNASCP3; SCP 3; SCP-3; SPGF4; Sycp 3; Sycp3; SYCP3_HUMAN; synaptonemal complex protein 3; anti-SCP3 antibody

PRODUCT SPECIFICATIONS

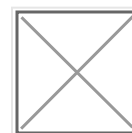
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	236
Applicable Applications for anti-SCP3 antibody	WB (Western Blot)
Immunogen	E Coli-derived human SCP3 recombinant protein (Position: E18-E223). Human SCP3 shares 72% and 73% amino acid (aa) sequences identity with mouse and rat SCP3, respectively.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Anti-SCP3 Picoband antibody, -2.jpgAll lanes: Anti SCP3 at 0.5ug/mlWB: HT1080 Whole Cell Lysate at 40ugPredicted bind size: 28KDObserved bind size: 28KD



WB (Western Blot)

Anti-SCP3 Picoband antibody, -1.jpgAll lanes: Anti SCP3 at 0.5ug/mlWB: Recombinant Human SCP3 Protein 0.5ngPredicted bind size: 41KDObserved bind size: 41KD

ADDITIONAL INFORMATION

Related Product Information for anti-SCP3 antibody	<p>Description: Rabbit IgG polyclonal antibody for Synaptonemal complex protein 3(SYCP3) detection. Tested with WB in Human.</p> <p>Background: SYCP3, also known as COR1 or SCP3, is a protein that in humans is encoded by the SYCP3 gene. It is mapped to 12q23.2. This gene encodes an essential structural component of the synaptonemal complex. This complex is involved in synapsis, recombination and segregation of meiotic chromosomes. Mutations in this gene are associated with azoospermia in males and susceptibility to pregnancy loss in females. Alternate splicing results in multiple transcript variants that encode the same protein. SYCP3 has an essential meiotic function in human spermatogenesis that is compromised by the mutant protein by dominant-negative interference. SYCP3 is linked to inherited aneuploidy in female germ cells and provides a model system for studying age-dependent degeneration in oocytes.</p>
References	<p>1. Martinez-Garay I, Jablonka S, Sutajova M, Steuernagel P, Gal A, Kutsche K (Sep 2002). "A new gene family (FAM9) of low-copy repeats in Xp22.3 expressed exclusively in testis: implications for recombinations in this region".Genomics 80 (3): 259-67. 2. Mallon AM, Platzer M, Bate R, Gloeckner G, Botcherby MR, Nordsiek G, Strivens MA, Kioschis P, Dangel A, Cunningham D, Straw RN, Weston P, Gilbert M, Fernando S, Goodall K, Hunter G, Greyststrong JS, Clarke D, Kimberley C, Goerdes M, Blechschmidt K, Rump A, Hinzmann B, Mundy CR, Miller W, Poustka A, Herman GE, Rhodes M, Denny P, Rosenthal A, Brown SD (Aug 2000). "Comparative genome sequence analysis of the Bpa/Str region in mouse and Man". Genome Res 10 (6): 758-75. 3. Miyamoto, T., Hasuike, S., Yogev, L., Maduro, M. R., Ishikawa, M., Westphal, H., Lamb, D. J. Azoospermia in patients heterozygous for a mutation in SYCP3. Lancet 362: 1714-1719, 2003.</p>

NCBI AND UNIPROT INFORMATION

NCBI GI #	295789050
NCBI GeneID	50511
NCBI Accession #	NP_001171419.1
NCBI GenBank Nucleotide #	NM_001177948.1
UniProt Accession #	Q8IZU3
Molecular Weight	27,729 Da
NCBI Official Full Name	synaptonemal complex protein 3
NCBI Official Synonym Full Names	synaptonemal complex protein 3
NCBI Official Symbol	SYCP3
NCBI Official Synonym Symbols	COR1; SCP3; SPGF4; RPRGL4
NCBI Protein Information	synaptonemal complex protein 3
UniProt Protein Name	Synaptonemal complex protein 3
UniProt Gene Name	SYCP3
UniProt Synonym Gene Names	SCP3; SCP-3
UniProt Entry Name	SYCP3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.