

Anti-SCP3/SYCP3 Antibody Picoband®

Catalog Number: RP1035

About SYCP3

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.

Overview

Product Name	Anti-SCP3/SYCP3 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-SCP3/SYCP3 Antibody catalog # RP1035. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q8IZU3

Technical Details

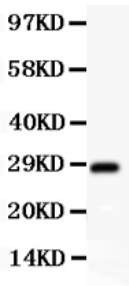
Immunogen	E.coli-derived human SCP3 recombinant protein (Position: E18-E223). Human SCP3 shares 72% and 73% amino acid (aa) sequences identity with mouse and rat SCP3, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

Anti-SCP3/SYCP3 Antibody Picoband® (RP1035) Images



Anti-SCP3 Picoband antibody, RP1035-1.jpg All lanes: Anti SCP3 (RP1035) at 0.5ug/ml WB: Recombinant Human SCP3 Protein 0.5ng Predicted bind size: 41KD Observed bind size: 41KD



Anti-SCP3 Picoband antibody, RP1035-2.jpg All lanes: Anti SCP3 (RP1035) at 0.5ug/ml WB: HT1080 Whole Cell Lysate at 40ug Predicted bind size: 28KD Observed bind size: 28KD

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Anti-SCP3/SYCP3 Antibody

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