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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB09424 - Goat Anti-SMC5 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: SMC5, structural maintenance of chromosomes 5, KIAA0594, SMC5L1, OTTHUMP00000063367, SMC5 protein, SMC5 structural maintenance of chromosomes 5-like 1

Official Symbol: SMC5

Accession Number(s): NP_055925.2

Human GeneID(s): [23137](#)

Non-Human GeneID(s): 226026 (mouse), 293967 (rat)

Immunogen

Peptide with sequence C-TSKHLEHKDNELRQ, from the Internal region of the protein sequence according to NP_055925.2.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:128000.

Western blot: Preliminary testing showed bands at approx 100+150kDa in HEK293 nuclear lysates after 1µg/ml antibody staining (calculated MW of 129kDa according to NP_055925.2). These bands were successfully blocked by incubation with the immunizing peptide. Primary incubation 1 hour at room temperature.

Immunofluorescence: Strong expression of the protein seen in HeLa cells.
Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of HeLa cells. Recommended concentration: 10ug/ml.

Species Reactivity

Tested: Human

Expected from sequence similarity: Human, Mouse, Rat, Cow, Dog

EB09424 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing speckled nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB09424 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.