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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 GenelD(s): 23137

Non-Human GenelD(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.

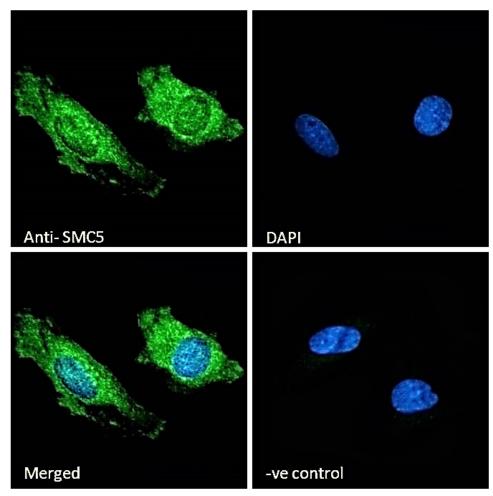
Flow Cytometry: Flow cytometric analysis of HeLa cells. Recommended concentration:

10ug/ml.

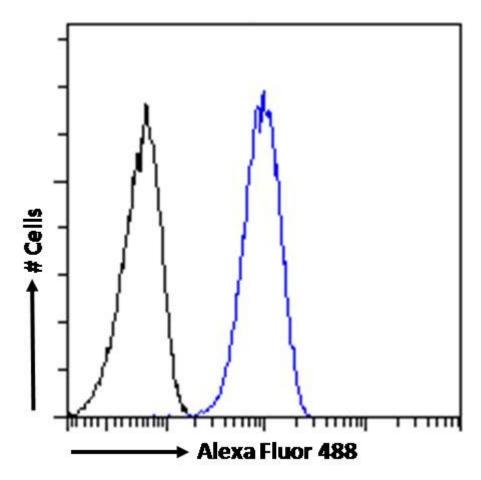
Species Reactivity

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.