

HICE1 (E-14): sc-240745



The Power to Question

BACKGROUND

Mitotic spindle integrity is critical for efficient mitotic progression and accurate chromosome segregation. HICE1 (Hec1-interacting and centrosome-associated 1), also known as NY-SAR-48 or HAUS8, is a 410 amino acid evolutionarily nonconserved cytoplasmic coiled-coil protein required for chromosomal integrity and stability of mitotic spindles. HICE1 is a component of the HAUS augmin-like complex, which is involved in the regulation of mitotic spindle assembly and centrosome stability. During interphase, HICE1 associates with centrosomes and with the mitotic spindles at the spindle pole vicinity. HICE1 also associates with the spindle midzone during anaphase and with the spindle midbody during telephase. Existing as two alternatively spliced isoforms, HICE1 is considered a novel microtubule-associated protein required for proper completion of cytokinesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HAUS8 (human) mapping to 19p13.11; Haus8 (mouse) mapping to 8 B3.3.

SOURCE

HICE1 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of HICE1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-240745 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HICE1 (E-14) is recommended for detection of HICE1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

HICE1 (E-14) is also recommended for detection of HICE1 in additional species, including equine and canine.

Suitable for use as control antibody for HICE1 siRNA (h): sc-97388, HICE1 siRNA (m): sc-108734, HICE1 shRNA Plasmid (h): sc-97388-SH, HICE1 shRNA Plasmid (m): sc-108734-SH, HICE1 shRNA (h) Lentiviral Particles: sc-97388-V and HICE1 shRNA (m) Lentiviral Particles: sc-108734-V.

Molecular Weight of HICE1: 46 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.