SANTA CRUZ BIOTECHNOLOGY, INC.

Herc2 (N-15): sc-104308

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Ubiquitination is an important mechanism through which three classes of enzymes act in concert to target short-lived or abnormal proteins for destruction. The three classes of enzymes involved in ubiquitination are the ubiquitin-activating enzymes (E1s), the ubiquitin-conjugating enzymes (E2s) and the ubiquitin-protein ligases (E3s). Herc2 (HECT domain and RLD 2), also known as jdf2, p528 or SHEP1, is a 4,834 amino acid protein that contains a variety of functional domains, including WD repeats, RCC1 repeats, HECT domains and ZZ-type zinc fingers. Involved in the pathway of protein modification, Herc2 is thought to function as an E3 ubiquitin-protein ligase that accepts ubiquitin (in the form of a thioester) from an E2 ubiquitin-conjugating enzyme and transfers that ubiquitin residue to substrates targeted for degradation. Variations in the Herc2 gene are associated with skin/hair/eye pigmentation variability type 1 (SHEP1), a allelic modification that affects hair, eye and skin color.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HERC2 (human) mapping to 15q13.1; Herc2 (mouse) mapping to 7 B5.

SOURCE

Herc2 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Herc2 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-104308 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Herc2 (N-15) is recommended for detection of Herc2 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).

Suitable for use as control antibody for Herc2 siRNA (h): sc-89942, Herc2 siRNA (m): sc-105452, Herc2 shRNA Plasmid (h): sc-89942-SH, Herc2 shRNA Plasmid (m): sc-105452-SH, Herc2 shRNA (h) Lentiviral Particles: sc-89942-V and Herc2 shRNA (m) Lentiviral Particles: sc-105452-V.

Molecular Weight of Herc2: 527 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.