SANTA CRUZ BIOTECHNOLOGY, INC.

SCAND2 (D-19): sc-100975

The Power to Question

BACKGROUND

SCAND2 (SCAN domain-containing protein 2) is a 306 amino acid nuclear protein that may play a role in the mechanism of transcriptional regulation. SCAND2 contains one SCAN box domain and, unlike most SCAN box domain-containing proteins, is devoid of a C_2H_2-type zinc-finger domain. The SCAN box domain is a conserved leucine rich motif, approximately 60 amino acids in length, that participates in protein-protein interactions. The SCAND2 gene is a fusion gene created by the retropositioning of a PHD2 (also known as EGLN1) gene copy from chromosome 1 onto an ancestral SCAN zinc finger gene, followed by exon shuffling. The resulting SCAND2 gene product has an N-terminal SCAN domain and a C-terminus derived from the PHD2 gene. SCAND2 exists as 2 isoforms produced by alternative splicing.

REFERENCES

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3. Schumacher, C., Wang, H., Honer, C., Ding, W., Koehn, J., Lawrence, Q., Coulis, C.M., Wang, L.L., Ballinger, D., Bowen, B.R. and Wagner, S. 2000. The SCAN domain mediates selective oligomerization. J. Biol. Chem. 275: 17173-17179.
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5. Dupuy, D., Duperat, V.G. and Arveiler, B. 2002. SCAN domain-containing 2 gene (SCAND2) is a novel nuclear protein derived from the zinc finger family by exon shuffling. Gene 289: 1-6.
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CHROMOSOMAL LOCATION

Genetic locus: SCAND2 (human) mapping to 15q25.2.

SOURCE

SCAND2 (D-19) is a mouse monoclonal antibody raised against recombinant SCAND2 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

SCAND2 (D-19) is recommended for detection of SCAND2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

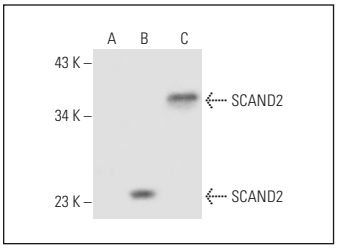
Molecular Weight of SCAND2: 34 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, HeLa whole cell lysate: sc-2200 or SCAND2 (h): 293T Lysate: sc-113771.

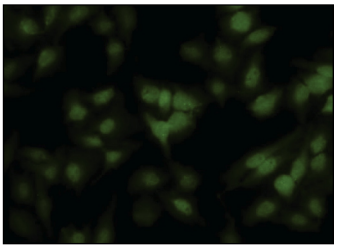
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



SCAND2 (D-19): sc-100975. Western blot analysis of SCAND2 expression in non-transfected 293T: sc-117752 (**A**), human SCAND2 transfected 293T: sc-113771 (**B**) and HeLa (**C**) whole cell lysates.



SCAND2 (D-19): sc-100975. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing nuclear localization.

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 for detailed protocols and support products.