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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

CASKIN2 (h): 293T Lysate: sc-116892

BACKGROUND

CASKIN2 (CASK interacting protein 2), also known as ANKS5B, is a 1,202 amino acid protein that localizes to the cytoplasm and contains one SH3 domain, 2 SAM domains and 6 ANK repeats. Expressed ubiquitously with highest levels present in fetal and adult liver tissue, CASKIN2 interacts with CASK and is thought to play a role in CASK function, specifically by coupling CASK to distinct downstream effectors. The gene encoding CASKIN2 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CASKIN2 (human) mapping to 17q25.1.

PRODUCT

CASKIN2 (h): 293T Lysate represents a lysate of human CASKIN2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

CASKIN2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive CASKIN2 antibodies. Recommended use: 10-20 µl per lane.

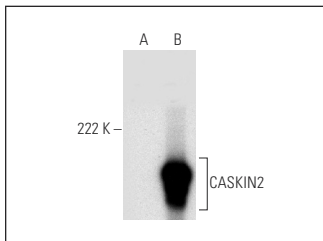
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

CASKIN2 (E-10): sc-393793 is recommended as a positive control antibody for Western Blot analysis of enhanced human CASKIN2 expression in CASKIN2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

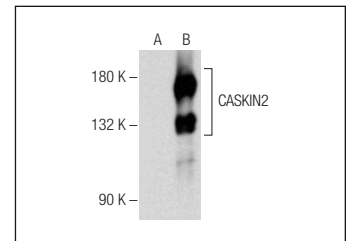
RECOMMENDED SUPPORT REAGENTS

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.

DATA



CASKIN2 (E-10): sc-393793. Western blot analysis of CASKIN2 expression in non-transfected: sc-117752 (A) and human CASKIN2 transfected: sc-116892 (B) 293T whole cell lysates.



CASKIN2 (D-9): sc-377512. Western blot analysis of CASKIN2 expression in non-transfected: sc-117752 (A) and human CASKIN2 transfected: sc-116892 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.