

# CASKIN2 (H-178): sc-292539

## 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 17q25.1, 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.

## CHROMOSOMAL LOCATION

Genetic locus: CASKIN2 (human) mapping to 17q25.1; Caskin2 (mouse) mapping to 11 E2.

## SOURCE

CASKIN2 (H-178) is a rabbit polyclonal antibody raised against amino acids 338-515 mapping within an internal region of CASKIN2 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.

## RESEARCH USE

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

## APPLICATIONS

CASKIN2 (H-178) is recommended for detection of CASKIN2 of mouse, rat and 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).

CASKIN2 (H-178) is also recommended for detection of CASKIN2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for CASKIN2 siRNA (h): sc-93841, CASKIN2 siRNA (m): sc-142021, CASKIN2 shRNA Plasmid (h): sc-93841-SH, CASKIN2 shRNA Plasmid (m): sc-142021-SH, CASKIN2 shRNA (h) Lentiviral Particles: sc-93841-V and CASKIN2 shRNA (m) Lentiviral Particles: sc-142021-V.

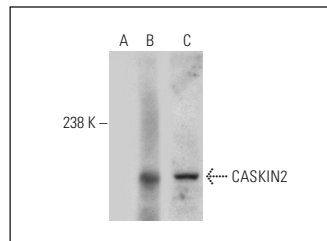
Molecular Weight of CASKIN2: 180 kDa.

Positive Controls: CASKIN2 (h): 293T Lysate: sc-116892 or CCRF-CEM cell lysate: sc-2225.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



CASKIN2 (H-178): 292539. Western blot analysis of CASKIN2 expression in non-transfected 293T: sc-117752 (A), human CASKIN2 transfected 293T: sc-116892 (B) and CCRF-CEM (C) whole cell lysates.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **CASKIN2 (H-7): sc-393825** or **CASKIN2 (D-9): sc-377512**, our highly recommended monoclonal alternatives to CASKIN2 (H-178).