

BCAS2 (N-17): sc-103408

BACKGROUND

BCAS2 (breast carcinoma amplified sequence 2), also designated DAM1 (DNA amplified in mammary carcinoma 1 protein) or spliceosome-associated SPF 27, is a ubiquitously expressed nuclear protein that was originally identified as being overexpressed in various breast cancer cell lines. BCAS2 is now known to be a component of the spliceosome, participating in the removal of introns from mRNA precursors. BCAS2 specifically interacts (in a ligand-independent manner) with TR β (thyroid hormone receptor β), ER α (estrogen receptor α), ER β , PR (progesterone receptor) and PPAR γ (peroxisome proliferator-activated receptor γ). BCAS2 functions as an ER co-activator and is capable of enhancing ER-mediated transcription. This suggests that BCAS2 is involved in the development of breast cancer.

REFERENCES

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- Lee, S., Ha, S., Chung, M., Kim, Y. and Choi, Y. 2002. Mouse Dam1 regulates pro-apoptotic activity of Blk in mammary epithelial cells. *Cancer Lett.* 188: 121-126.
- Qi, C., Zhu, Y.T., Chang, J., Yeldandi, A.V., Rao, M.S. and Zhu, Y.J. 2005. Potentiation of estrogen receptor transcriptional activity by breast cancer amplified sequence 2. *Biochem. Biophys. Res. Commun.* 328: 393-398.
- Worsham, M.J., Pals, G., Schouten, J.P., Miller, F., Tiwari, N., van Spaendonk, R. and Wolman, S.R. 2006. High-resolution mapping of molecular events associated with immortalization, transformation, and progression to breast cancer in the MCF10 model. *Breast Cancer Res. Treat.* 96: 177-186.

CHROMOSOMAL LOCATION

Genetic locus: BCAS2 (human) mapping to 1p13.2; Bcas2 (mouse) mapping to 3 F2.2.

SOURCE

BCAS2 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of BCAS2 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-103408 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

BCAS2 (N-17) is recommended for detection of BCAS2 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); non cross-reactive with family members BCAS3 or BCAS4.

BCAS2 (N-17) is also recommended for detection of BCAS2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for BCAS2 siRNA (h): sc-88190, BCAS2 siRNA (m): sc-105116, BCAS2 shRNA Plasmid (h): sc-88190-SH, BCAS2 shRNA Plasmid (m): sc-105116-SH, BCAS2 shRNA (h) Lentiviral Particles: sc-88190-V and BCAS2 shRNA (m) Lentiviral Particles: sc-105116-V.

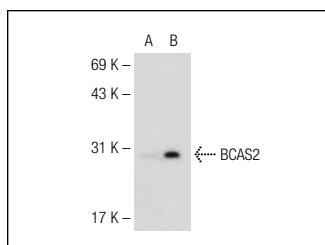
Molecular Weight of BCAS2: 26 kDa.

Positive Controls: BCAS2 (h2): 293T Lysate: sc-172935 or K-562 whole cell lysate: sc-2203.

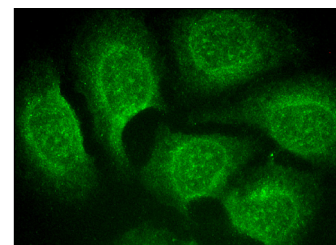
RECOMMENDED SECONDARY REAGENTS

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.

DATA



BCAS2 (N-17): sc-103408. Western blot analysis of BCAS2 expression in non-transfected: sc-117752 (A) and human BCAS2 transfected: sc-172935 (B) 293T whole cell lysates.



BCAS2 (N-17): sc-103408. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear and cytoplasmic localization.

RESEARCH USE

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

MONOS
Satisfaction
Guaranteed

Try **BCAS2 (F-5): sc-376554** or **BCAS2 (G-8): sc-365346**, our highly recommended monoclonal alternatives to BCAS2 (N-17).