

BLCAP (C-12): sc-85301

BACKGROUND

BLCAP (bladder cancer-associated protein) is an 87 amino acid highly conserved multi-pass transmembrane protein that is highly expressed in normal esophagus, thyroid and brain tissue. Overexpression of BLCAP inhibits cell growth and initiates apoptosis via upregulation of p21 and downregulation of Bcl-x_L and Bcl-2. Since p53 and NFκB activity remain unchanged, the regulation of the cell cycle and apoptosis by BLCAP represents a novel pathway independent of p53 and NFκB. Transcription of the gene encoding BLCAP is almost completely repressed in high invasive transitional cell carcinomas. Additionally, BLCAP is expressed in all non-cancerous cervical tissues, but expression is lost in primary cervical cancer tissue. This evidence suggests that BLCAP may be a suitable marker for carcinogenic invasiveness and progression.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: BLCAP (human) mapping to 20q11.23; Bclap (mouse) mapping to 2 H1.

SOURCE

BLCAP (C-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of BLCAP of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-85301 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BLCAP (C-12) is recommended for detection of BLCAP 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).

BLCAP (C-12) is also recommended for detection of BLCAP in additional species, including equine, canine, bovine, porcine and feline.

Suitable for use as control antibody for BLCAP siRNA (h): sc-72653, BLCAP siRNA (m): sc-141709, BLCAP shRNA Plasmid (h): sc-72653-SH, BLCAP shRNA Plasmid (m): sc-141709-SH, BLCAP shRNA (h) Lentiviral Particles: sc-72653-V and BLCAP shRNA (m) Lentiviral Particles: sc-141709-V.

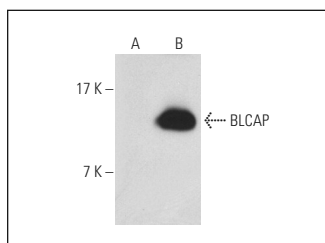
Molecular Weight of BLCAP: 10 kDa.

Positive Controls: BLCAP (h): 293T Lysate: sc-116163.

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) 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



BLCAP (C-12): sc-85301. Western blot analysis of BLCAP expression in non-transfected: sc-117752 (A) and human BLCAP transfected: sc-116163 (B) 293T 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.