

ANUBL1 (E-17): sc-241823

BACKGROUND

ANUBL1 (AN1, ubiquitin-like, homolog), also known as AN1-type zinc finger and ubiquitin domain-containing protein 1 or ZFAND4 (zinc finger, AN1-type domain 4), is a 727 amino acid protein that contains one AN1-type zinc finger and one ubiquitin-like domain. ANUBL1 participates in metal and zinc ion binding and is conserved in chimpanzee, canine, bovine, mouse, rat and zebrafish. The AN1 domain of human ANUBL1 is homologous to the AN1 domain of OsiSAP8, which belongs to the stress associated protein (SAP) gene family of rice and exhibits salt, drought and cold stress tolerance in transgenic tobacco and rice. ANUBL1 is encoded by a gene that maps to human chromosome 10, which spans nearly 135 million base pairs that encode approximately 1,200 genes and makes up 4.5% of total DNA in cells. Several protein-coding genes, including those that encode for chemokines, cadherins, excision repair proteins, early growth response factors (Egrs) and fibroblast growth receptors (FGFRs), are located on chromosome 10.

REFERENCES

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- Gilbert, F. 2001. *Chromosome 10. Genet. Test.* 5: 69-82.
- Mehrabian, M., et al. 2005. Integrating genotypic and expression data in a segregating mouse population to identify 5-lipoxygenase as a susceptibility gene for obesity and bone traits. *Nat. Genet.* 37: 1224-1233.
- Kuhn, H., et al. 2007. Arachidonic Acid metabolites in the cardiovascular system: the role of lipoxygenase isoforms in atherogenesis with particular emphasis on vascular remodeling. *J. Cardiovasc. Pharmacol.* 50: 609-620.
- Cho, M.Y., et al. 2008. First report of ovarian dysgerminoma in Cowden syndrome with germline PTEN mutation and PTEN-related 10q loss of tumor heterozygosity. *Am. J. Surg. Pathol.* 32: 1258-1264.

CHROMOSOMAL LOCATION

Genetic locus: ANUBL1 (human) mapping to 10q11.22; Anubl1 (mouse) mapping to 6 E3.

SOURCE

ANUBL1 (E-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ANUBL1 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.

Blocking peptide available for competition studies, sc-241823 P, (100 µg 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

ANUBL1 (E-17) is recommended for detection of ANUBL1 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).

ANUBL1 (E-17) is also recommended for detection of ANUBL1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ANUBL1 siRNA (h): sc-90335, ANUBL1 siRNA (m): sc-141126, ANUBL1 shRNA Plasmid (h): sc-90335-SH, ANUBL1 shRNA Plasmid (m): sc-141126-SH, ANUBL1 shRNA (h) Lentiviral Particles: sc-90335-V and ANUBL1 shRNA (m) Lentiviral Particles: sc-141126-V.

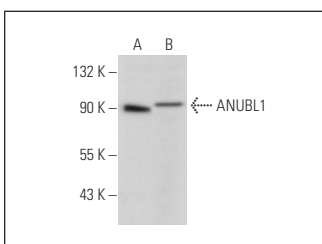
Molecular Weight of ANUBL1: 80 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or NIH/3T3 whole cell lysate: sc-2210.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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



ANUBL1 (E-17): sc-241823. Western blot analysis of ANUBL1 expression in HeLa (A) and NIH/3T3 (B) whole cell lysates.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.