

UROC28 (T-13): sc-169762

BACKGROUND

UROC28, also known as PBOV1 (prostate and breast cancer overexpressed 1) or UC28, is a 135 amino acid cytoplasmic and nuclear protein that is expressed in colon, prostate, small intestine, testis and spleen, with lower expression in thymus, ovary and peripheral blood leukocytes. UROC28 is up-regulated in prostate, breast and bladder cancer, and is thereby considered a useful target for diagnosis and treatment of these cancers. UROC28 is encoded by a gene located on human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

REFERENCES

- An, G., et al. 2000. Cloning and characterization of UROC28, a novel gene overexpressed in prostate, breast, and bladder cancers. *Cancer Res.* 60: 7014-7020.
- Online Mendelian Inheritance in Man, OMIM[™]. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 605669. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Mungall, A.J., et al. 2003. The DNA sequence and analysis of human chromosome 6. *Nature* 425: 805-811.
- Doak, S.H., et al. 2007. Bone morphogenic factor gene dosage abnormalities in prostatic intraepithelial neoplasia and prostate cancer. *Cancer Genet. Cytogenet.* 176: 161-165.
- Park, E., et al. 2007. Modulation of parkin gene expression in noradrenergic neuronal cells. *Int. J. Dev. Neurosci.* 25: 491-497.
- Bläker, H., et al. 2008. Recurrent deletions at 6q in early age of onset non-HNPCC- and non-FAP-associated intestinal carcinomas. Evidence for a novel cancer susceptibility locus at 6q14-q22. *Genes Chromosomes Cancer* 47: 159-164.
- Krukovskaia, L.L., et al. 2010. Tumor-specific expression of PBOV1, a new gene in evolution. *Vopr. Onkol.* 56: 327-332.

CHROMOSOMAL LOCATION

Genetic locus: PBOV1 (human) mapping to 6q23.3.

SOURCE

UROC28 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of UROC28 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-169762 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

UROC28 (T-13) is recommended for detection of UROC28 of 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 UROC1.

Suitable for use as control antibody for UROC28 siRNA (h): sc-95392, UROC28 shRNA Plasmid (h): sc-95392-SH and UROC28 shRNA (h) Lentiviral Particles: sc-95392-V.

Molecular Weight of UROC28: 16 kDa.

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.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. 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 or our catalog for detailed protocols and support products.