

HEATR1 (H-300): sc-134699

BACKGROUND

HEATR1 (HEAT repeat containing 1), also known as BAP28, is a 2,144 amino acid nuclear protein involved in nucleolar processing of pre-18S ribosomal RNA. HEATR1 is a member of the HEATR1/UTP10 family and contains one HEAT repeat. The gene encoding HEATR1 is located on human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HEATR1 (human) mapping to 1q43; Heatr1 (mouse) mapping to 13 A1.

SOURCE

HEATR1 (H-300) is a rabbit polyclonal antibody raised against amino acids 1845-2144 mapping at the C-terminus of HEATR1 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.

APPLICATIONS

HEATR1 (H-300) is recommended for detection of HEATR1 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); non cross-reactive with other HEATR family members.

HEATR1 (H-300) is also recommended for detection of HEATR1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for HEATR1 siRNA (h): sc-88457, HEATR1 siRNA (m): sc-145920, HEATR1 shRNA Plasmid (h): sc-88457-SH, HEATR1 shRNA Plasmid (m): sc-145920-SH, HEATR1 shRNA (h) Lentiviral Particles: sc-88457-V and HEATR1 shRNA (m) Lentiviral Particles: sc-145920-V.

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.

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.



Try **HEATR1 (B-11): sc-390445**, our highly recommended monoclonal alternative to HEATR1 (H-300).