BACKGROUND

OY-TES-1, also known as ACRBP (acrosin binding protein) or SP32, is a 543 amino acid secreted protein that is found on sperm acrosomes where it colocalizes with acrosin. Expressed in normal testicular tissue, OY-TES-1 binds to acrosin and is thought to mediate the packaging and condensation of acrosin in the acrosomal matrix. In addition to its expression in testis, OY-TES-1 is present in cancer tissue throughout the body, including breast, bladder, liver and lung carcinomas, suggesting an involvement in tumor formation and metastasis. The gene encoding OY-TES-1 maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and Trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: ACRBP (human) mapping to 12p13.31; Acrbp (mouse) mapping to 6 F2.

SOURCE

OY-TES-1 (G-5) is a mouse monoclonal antibody raised against amino acids 31-188 mapping near the N-terminus of OY-TES-1 of human origin.

PRODUCT

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

OY-TES-1 (G-5) is available conjugated to agarose (sc-390594 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390594 HRP), 200 µg/ml for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390594 PE), fluorescein (sc-390594 FITC), Alexa Fluor® 488 (sc-390594 AF488), Alexa Fluor® 546 (sc-390594 AF546), Alexa Fluor® 594 (sc-390594 AF594) or Alexa Fluor® 647 (sc-390594 AF647), 200 µg/ml for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 880 (sc-390594 AF880) or Alexa Fluor® 790 (sc-390594 AF790), 200 µg/ml for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

OY-TES-1 (G-5) is recommended for detection of OY-TES-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for OY-TES-1 siRNA (h): sc-95804, OY-TES-1 siRNA (m): sc-151953, OY-TES-1 shRNA Plasmid (h): sc-95804-SH, OY-TES-1 shRNA Plasmid (m): sc-151953-SH, OY-TES-1 shRNA (h) Lentiviral Particles: sc-95804-V and OY-TES-1 shRNA (m) Lentiviral Particles: sc-151953-V.

Molecular Weight of OY-TES-1: 61 kDa.

Positive Controls: human testis extract: sc-363781.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κBP-HRP: sc-516102 or m-IgG κBP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminal Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA

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.