

OY-TES-1 (S-15): sc-109379

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 co-localizes 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.

CHROMOSOMAL LOCATION

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

SOURCE

OY-TES-1 (S-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of OY-TES-1 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-109379 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

OY-TES-1 (S-15) is recommended for detection of OY-TES-1 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).

OY-TES-1 (S-15) is also recommended for detection of OY-TES-1 in additional species, including canine, bovine and porcine.

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.

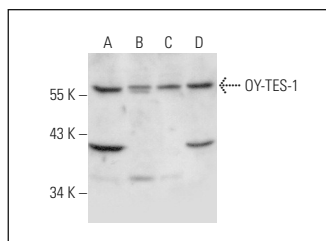
Molecular Weight of OY-TES-1: 61 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, HEK293 whole cell lysate: sc-45136 or HeLa whole cell lysate: sc-2200.

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



OY-TES-1 (S-15): sc-109379. Western blot analysis of OY-TES-1 expression in MDA-MB-231 (A), HEK293 (B), HeLa (C) and Hep G2 (D) 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.

PROTOCOLS

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



Try **OY-TES-1 (G-5): sc-390594**, our highly recommended monoclonal alternative to OY-TES-1 (S-15).