abcam

Product datasheet

Anti-SRY/TDF antibody ab99264

1 Image

Overview

Product name	Anti-SRY/TDF antibody
Description	Rabbit polyclonal to SRY/TDF
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Chimpanzee, Gorilla
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	This antibody gave a positive signal in Human testis tissue lysate.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab99264 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 26 kDa (predicted molecular weight: 24 kDa).

Target

Function

Transcriptional regulator that controls a genetic switch in male development. It is necessary and sufficient for initiating male sex determination by directing the development of supporting cell precursors (pre-Sertoli cells) as Sertoli rather than granulosa cells (By similarity). In male adult brain involved in the maintenance of motor functions of dopaminergic neurons (By similarity). Involved in different aspects of gene regulation including promoter activation or repression (By similarity). Promotes DNA bending. SRY HMG box recognizes DNA by partial intercalation in the minor groove. Also involved in pre-mRNA splicing. Binds to the DNA consensus sequence 5'-[AT]AACAA[AT]-3'.

Involvement in disease

Defects in SRY are a cause of gonadal dysgenesis XY female type (GDXY) [MIM:400044]; also known as complete SRY-related 46,XY gonadal dysgenesis or 'XY females' or Swyer syndrome. Patients are found to have a 46,XY karyotype. They suffer rapid and early degeneration of their gonads, which are present in the adult as 'streak gonads', consisting mainly of fibrous tissue and variable amounts of ovarian stroma. As a result these patients do not develop secondary sexual characteristics at puberty. The external genitalia in these subjects are completely female, and Muellerian structures are normal. In contrast, subjects with 46,XY partial gonadal dysgenesis have ambiguous genitalia, a mix of Muellerian and Wolffian structures, and dysgenic gonads.
Note=A 45,X chromosomal aberration involving SRY is found in Turner syndrome, a disease characterized by gonadal dysgenesis with short stature, "streak gonads", variable abnormalities such as webbing of the neck, cubitus valgus, cardiac defects, low posterior hair line. The phenotype is female.
Defects in SRY are a cause of true hermaphroditism (TRUHER) [MIM:400045]; also known as complete SRY-positive 46,XX gonadal dysgenesis. A true hermaphrodite must have both mature ovarian and mature testicular tissue with histologic evidence of follicles and tubules, respectively. It is a genetically heterogeneous condition. The genotype of most affected individuals is 46,XX, but many have 46,XY or a mosaic of 46,XX/46,XY. True hermaphroditism can be caused also by chromosomal translocation.

Sequence similarities

Belongs to the SRY family.
Contains 1 HMG box DNA-binding domain.

Domain

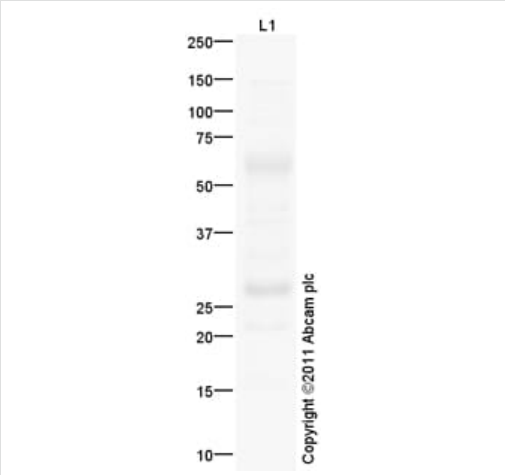
DNA binding and bending properties of the HMG domains of human and mouse SRY differ form each other. Human SRY shows more extensive minor groove contacts with DNA and a lower specificity of sequence recognition than mouse SRY.

Post-translational modifications

Phosphorylated on serine residues by PKA. Phosphorylation by PKA enhances its DNA-binding activity and stimulates transcription repression. Acetylation of Lys-136 contributes to its nuclear localization and enhances its interaction with KPNB1. Deacetylated by HDAC3. Poly-ADP-ribosylated by PARP1. ADP-ribosylation reduces its DNA-binding activity.

Cellular localization	Nucleus speckle. Cytoplasm. Colocalizes with SOX6 in speckles. Colocalizes with CAML in the nucleus. Colocalizes in the nucleus with ZNF208 isoform KRAB-O and tyrosine hydroxylase (TH).

Images



Western blot - Anti-SRY/TDF antibody (ab99264)

Anti-SRY/TDF antibody (ab99264) at 1 µg/ml + Human testis tissue lysate - total protein (**ab30257**) at 10 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 24 kDa
Observed band size: 26 kDa
Additional bands at: 55 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 20 minutes

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