abcam

Product datasheet

Anti-TDRD5 antibody ab118424

2 Images

Overview

Product name	Anti-TDRD5 antibody
Description	Rabbit polyclonal to TDRD5
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Chimpanzee, Macaque monkey, Gorilla
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 700 - 800 of Human TDRD5.Read Abcam's proprietary immunogen policy
Positive control	This antibody gave a positive signal in Human Testis tissue lysate. This antibody gave a positive result in IHC in the following FFPE tissue: Human normal testis.

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 Note: 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

Our Abpromise guarantee covers the use of **ab118424** in the following tested applications.

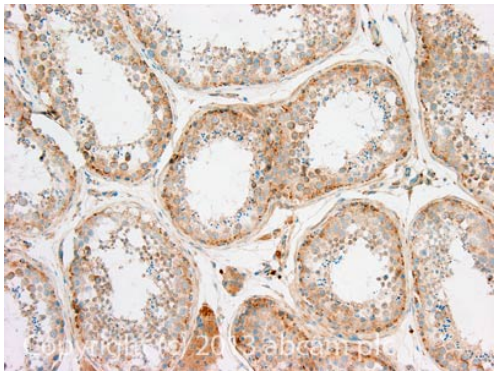
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 110 kDa (predicted molecular weight: 110 kDa).
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function	Required during spermiogenesis to participate to the repression transposable elements and prevent their mobilization, which is essential for the germline integrity. Probably acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and govern the methylation and subsequent repression of transposons. Required for chromatoid body (CB) assembly.
Sequence similarities	Belongs to the TDRD5 family. Contains 3 Lotus/OST-HTH domains. Contains 1 Tudor domain.
Cellular localization	Cytoplasm. Localizes to chromatoid body (CB) and pi-body (also called intermitochondrial cementin), 2 cytoplasmic ribonucleoprotein granules involved in RNA processing for spermatogenesis.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TDRD5 antibody (ab118424)

IHC image of TDRD5 staining in Human normal testis formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab118424, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

Western blot - Anti-TDRD5 antibody (ab118424)

Anti-TDRD5 antibody (ab118424) at 1 µg/ml + Human testis tissue lysate - total protein (ab30257) at 25 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 110 kDa
Observed band size: 110 kDa
Additional bands at: 26 kDa, 53 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 4 minutes

This blot was produced using a 10% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab118424 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.

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