

Anti-TSSK2 antibody [EPR16116] ab192026

Recombinant RabMAb

4 Images

Overview

Product name	Anti-TSSK2 antibody [EPR16116]
Description	Rabbit monoclonal [EPR16116] to TSSK2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human, mouse and rat testis lysates; Human testis tissue
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.</p>

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 long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16116
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab192026 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		1/1000. Detects a band of approximately 41 kDa (predicted molecular weight: 41 kDa).
IHC-P		1/400 - 1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function

Testis-specific serine/threonine-protein kinase required during spermatid development. Phosphorylates TSKS at 'Ser-288' and SPAG16. Involved in the late stages of spermatogenesis, during the reconstruction of the cytoplasm. During spermatogenesis, required for the transformation of a ring-shaped structure around the base of the flagellum originating from the chromatoid body.

Tissue specificity

Testis-specific. Present in mature spermatozoa (at protein level).

Sequence similarities

Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. Contains 1 protein kinase domain.

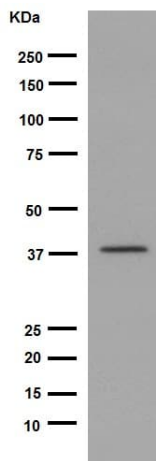
Post-translational modifications

Autophosphorylated.

Cellular localization

Cytoplasm. Cytoplasm > cytoskeleton > centrosome > centriole. Present in the cytoplasm of elongating spermatids. In spermatozoa, localizes in the equatorial segment, neck, the midpiece and in a specific sperm head compartment (By similarity). In spermatids, concentrates in centrioles during flagellogenesis.

Images



Western blot - Anti-TSSK2 antibody [EPR16116]
(ab192026)

Anti-TSSK2 antibody [EPR16116] (ab192026) at 1/1000 dilution +
Human testis lysate at 10 µg

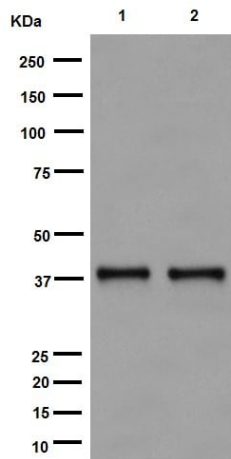
Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at
1/1000 dilution

Predicted band size: 41 kDa

Observed band size: 41 kDa

Blocking/dilution buffer: 5% NFDM/TBST.



Western blot - Anti-TSSK2 antibody [EPR16116]
(ab192026)

All lanes : Anti-TSSK2 antibody [EPR16116] (ab192026) at
1/1000 dilution

Lane 1 : Mouse testis lysate

Lane 2 : Rat testis lysate

Lysates/proteins at 20 µg per lane.

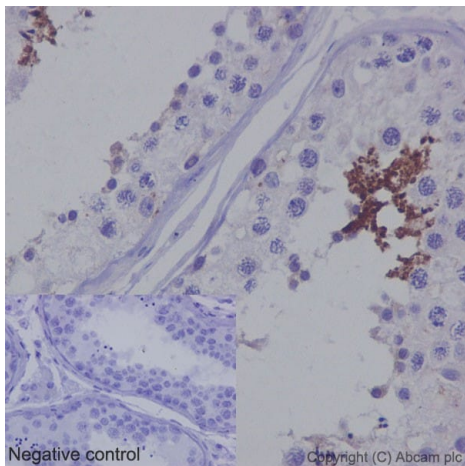
Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at
1/1000 dilution

Predicted band size: 41 kDa

Observed band size: 41 kDa

Blocking/dilution buffer: 5% NFDM/TBST.



Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling TSSK2 with ab192026 at 1/1000 dilution, followed by prediluted HRP Polymer for Rabbit/Mouse IgG. Counter stained with Hematoxylin. The negative control utilised PBS instead of primary antibody.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSSK2 antibody [EPR16116] (ab192026)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-TSSK2 antibody [EPR16116] (ab192026)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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