abcam

Product datasheet

Anti-REC8 antibody [EPR16189] ab192241

Recombinant RabMAb

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Overview

Product name	Anti-REC8 antibody [EPR16189]
Description	Rabbit monoclonal [EPR16189] to REC8
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human, mouse and rat testis and Jurkat lysates; Human, mouse and rat testis tissues.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16189
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab192241 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)	1/1000 - 1/10000. Detects a band of approximately 85-95 kDa (predicted molecular weight: 67 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function Required during meiosis for separation of sister chromatids and homologous chromosomes. Proteolytic cleavage of REC8 on chromosome arms by separin during anaphase I allows for homologous chromosome separation in meiosis I and cleavage of REC8 on centromeres during anaphase II allows for sister chromatid separation in meiosis II.

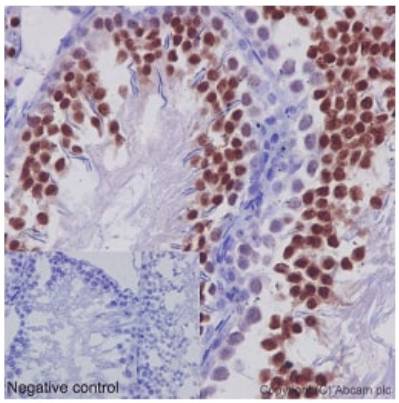
Tissue specificity Expressed in testis and thymus.

Sequence similarities Belongs to the rad21 family.

Post-translational modifications Phosphorylated.

Cellular localization Nucleus. Chromosome. In meiotic chromosomes, localized along axial elements in prophase from the leptotene to diplotene stages. At later prophase stages, diakinesis and metaphase I, localized along interstitial axes of chromosomes including both centromere and arm regions. No longer detected in arm regions in anaphase I but persists on centromere regions until metaphase II.

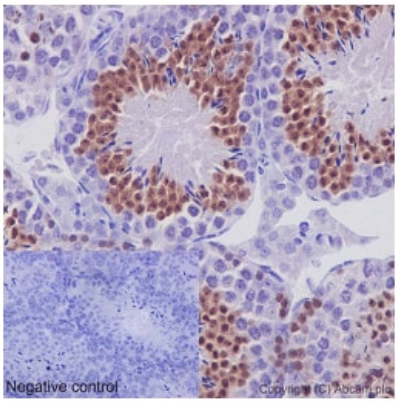
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-REC8 antibody [EPR16189] (ab192241)

Immunohistochemical analysis of paraffin-embedded Rat testis tissue labeling REC8 with ab192241 at 1/100 dilution followed by pre-diluted HRP Polymer for Rabbit/Mouse IgG secondary antibody and counter-stained with Hematoxylin. (inset: negative control).

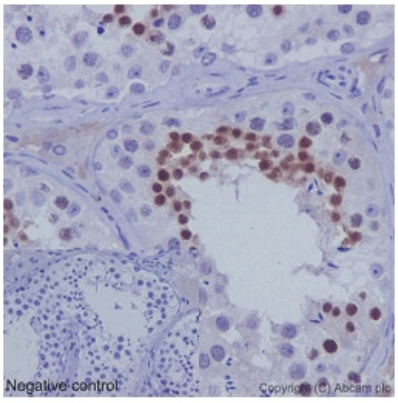
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-REC8 antibody [EPR16189] (ab192241)

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue labeling REC8 with ab192241 at 1/100 dilution followed by pre-diluted HRP Polymer for Rabbit/Mouse IgG secondary antibody and counter-stained with Hematoxylin. (inset: negative control).

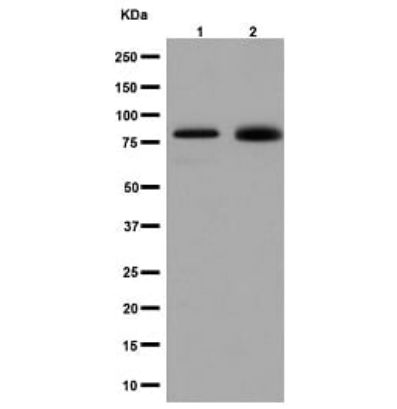
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-REC8 antibody [EPR16189] (ab192241)

Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling REC8 with ab192241 at 1/100 dilution followed by pre-diluted HRP Polymer for Rabbit/Mouse IgG secondary antibody and counter-stained with Hematoxylin. (inset: negative control).

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



Western blot - Anti-REC8 antibody [EPR16189] (ab192241)

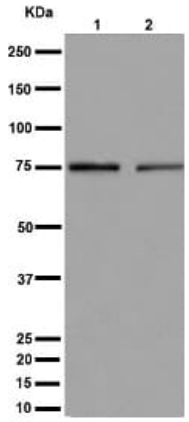
All lanes : Anti-REC8 antibody [EPR16189] (ab192241) at 1/10000 dilution

Lane 1 : Mouse testis lysate
Lane 2 : Rat testis lysate

Lysates/proteins at 10 µg per lane.

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

Predicted band size: 67 kDa



Western blot - Anti-REC8 antibody [EPR16189] (ab192241)

All lanes : Anti-REC8 antibody [EPR16189] (ab192241) at 1/1000 dilution

Lane 1 : Human testis lysate

Lane 2 : Jurkat lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 67 kDa

Anti-REC8 antibody [EPR16189] (ab192241)

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