

HRP Anti-Ku80 antibody [EPR3468] ab199096

リコンビナント RabMAb

画像数 3

製品の概要

製品名	HRP Anti-Ku80 antibody [EPR3468]
製品の詳細	HRP Rabbit monoclonal [EPR3468] to Ku80
由来種	Rabbit
標識	HRP
アプリケーション	適用あり: WB, IHC-P
種交差性	交差種: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: A549, HeLa, HepG2 and MCF7 whole cell lysates. IHC-P: normal human spleen tissue sections
特記事項	<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>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store in the Dark.
バッファー	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR3468

アプリケーション

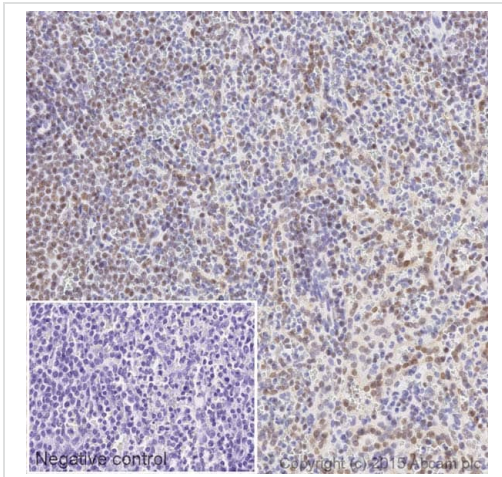
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab199096の使用に適用されず**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/5000. Detects a band of approximately 83 kDa (predicted molecular weight: 83 kDa).
IHC-P		1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ターゲット情報

機能	Single stranded DNA-dependent ATP-dependent helicase. Has a role in chromosome translocation. The DNA helicase II complex binds preferentially to fork-like ends of double-stranded DNA in a cell cycle-dependent manner. It works in the 3'-5' direction. Binding to DNA may be mediated by XRCC6. Involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. The XRCC5/6 dimer acts as regulatory subunit of the DNA-dependent protein kinase complex DNA-PK by increasing the affinity of the catalytic subunit PRKDC to DNA by 100-fold. The XRCC5/6 dimer is probably involved in stabilizing broken DNA ends and bringing them together. The assembly of the DNA-PK complex to DNA ends is required for the NHEJ ligation step. In association with NAA15, the XRCC5/6 dimer binds to the osteocalcin promoter and activates osteocalcin expression. The XRCC5/6 dimer probably also acts as a 5'-deoxyribose-5-phosphate lyase (5'-dRP lyase), by catalyzing the beta-elimination of the 5' deoxyribose-5-phosphate at an abasic site near double-strand breaks. XRCC5 probably acts as the catalytic subunit of 5'-dRP activity, and allows to 'clean' the termini of abasic sites, a class of nucleotide damage commonly associated with strand breaks, before such broken ends can be joined. The XRCC5/6 dimer together with APEX1 acts as a negative regulator of transcription.
配列類似性	Belongs to the ku80 family. Contains 1 Ku domain.
発生段階	Expression increases during promyelocyte differentiation.
ドメイン	The EEXXXDDL motif is required for the interaction with catalytic subunit PRKDC and its recruitment to sites of DNA damage.
翻訳後修飾	Phosphorylated on serine residues. Phosphorylation by PRKDC may enhance helicase activity. Sumoylated.
細胞内局在	Nucleus. Chromosome.

画像

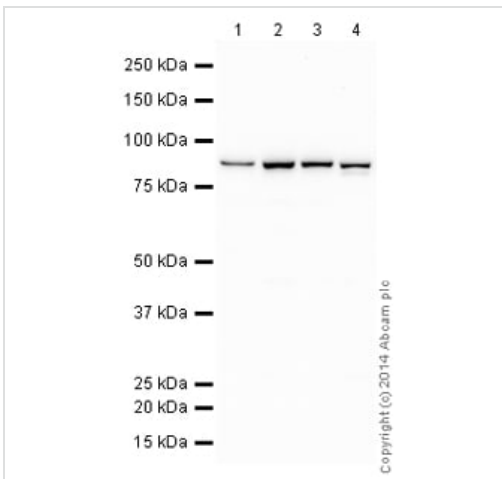


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-Ku80 antibody [EPR3468] (ab199096)

IHC image of Ku80 staining in a section of formalin-fixed paraffin-embedded normal human spleen*, performed on a Leica BOND. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab199096, 1/500 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

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.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - HRP Anti-Ku80 antibody [EPR3468] (ab199096)

All lanes : HRP Anti-Ku80 antibody [EPR3468] (ab199096) at 1/5000 dilution

Lane 1 : A549 (Human lung adenocarcinoma epithelial cell line) Whole Cell Lysate

Lane 2 : HeLa whole cell lysate (**ab150035**)

Lane 3 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lane 4 : MCF7 (Human breast adenocarcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 83 kDa

Observed band size: 83 kDa

Exposure time: 20 seconds

This blot was produced using a 4-12% 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 2% Bovine Serum Albumin before being incubated with ab199096 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.

Why choose a recombinant antibody?

The infographic is titled "Why choose a recombinant antibody?" and features four circular icons with corresponding text. 1. Top-left: An icon of two test tubes with arrows indicating a cycle, labeled "Research with confidence" and "Consistent and reproducible results". 2. Top-right: An icon of a pocket watch, labeled "Long-term and scalable supply" and "Recombinant technology". 3. Bottom-left: An icon of a target with a crosshair, labeled "Success from the first experiment" and "Confirmed specificity". 4. Bottom-right: An icon of two overlapping circles, labeled "Ethical standards compliant" and "Animal-free production".

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