abcam

Product datasheet

Anti-Ku80 antibody ab55408

1 References　画像数 2

製品の概要

製品名	Anti-Ku80 antibody
製品の詳細	Rabbit polyclonal to Ku80
由来種	Rabbit
特異性	ab55408 detects endogenous levels of total Ku80 protein.
アプリケーション	**適用あり:** IHC-P, WB, ELISA
種交差性	**交差種:** Human **交差が予測される動物種:** Mouse
免疫原	Synthetic non-phosphopeptide derived from human Ku80 around the phosphorylation site of threonine 714 (G-D-T-A-A).
ポジティブ・コントロール	COS7 cell extracts.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg2+ and Ca2+), 150mM Sodium chloride, pH 7.4
精製度	Immunogen affinity purified
特記事項（精製）	ab55408 was affinity purified from rabbit antiserum by affinity chromatography using epitope specific immunogen.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our Abpromise guarantee covers the use of **ab55408** in the following tested applications.

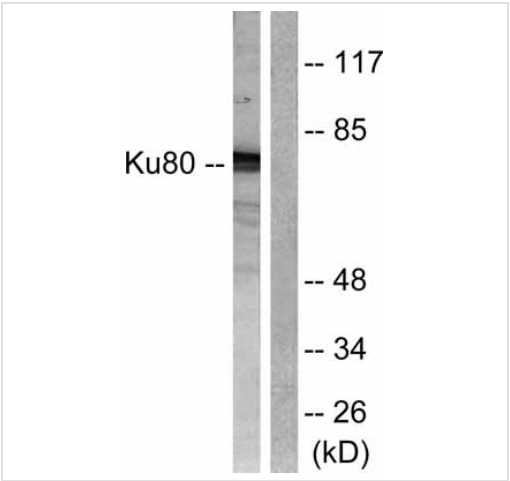
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration.
WB		1/500 - 1/1000. Detects a band of approximately 83 kDa (predicted molecular weight: 83 kDa).
ELISA		1/5000.

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

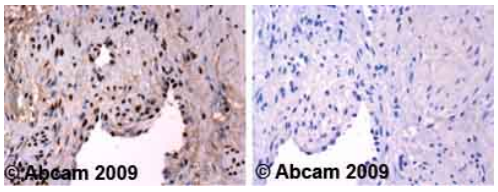


Western blot - Ku80 antibody (ab55408)

All lanes : Anti-Ku80 antibody (ab55408) at 1/500 dilution

Lane 1 : COS7 cell extract, without immunizing peptide
Lane 2 : COS7 cell extract, with immunizing peptide

Predicted band size: 83 kDa
Observed band size: 83 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-Ku80 antibody(ab55408)

Ab55408 staining human normal uterus myometrium tissue. Staining is localised to nuclear compartment.
Left panel: with primary antibody at 1 ug/ml.
Right panel: isotype control.
Sections were stained using an automated system DAKO Autostainer Plus , at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 antigen retrieval buffer EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.

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