

Mouse Ku70 Monoclonal Antibody | anti-Ku70 antibody

Ku70 Monoclonal Antibody

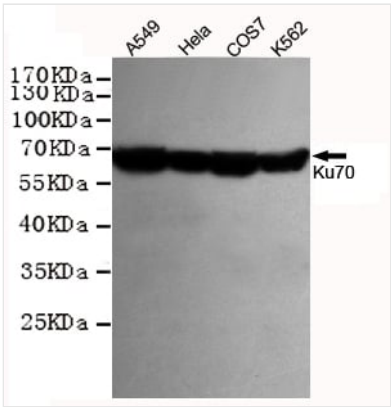
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA300716	Mouse	Human, Monkey	Immunoprecipitation, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

Ku70; Monoclonal Antibody; Ku70 Monoclonal Antibody; 5"-deoxyribose-5-phosphate lyase Ku70; 5"-dRP lyase Ku70; 70 kDa subunit of Ku antigen; ATP dependent DNA helicase 2 subunit 1; ATP dependent DNA helicase II 70 kDa subunit; ATP-dependent DNA helicase 2 subunit 1; anti-Ku70 antibody

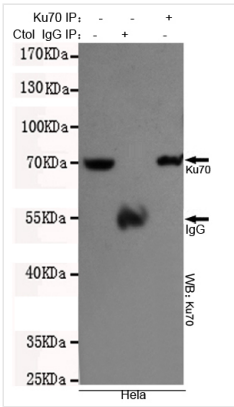
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Monkey
Clonality	Monoclonal
Isotype	IgG1
Clone Number	7B1-E12-G4
Specificity	This antibody detects endogenous levels of Ku70 and does not cross-react with related proteins.
Purity/Purification	Affinity purified
Form/Format	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.02% sodium azide and 50% glycerol.
Sequence Length	609
Applicable Applications for anti-Ku70 antibody	IP (Immunoprecipitation), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen Type	Recombinant Protein
Immunogen Description	Purified recombinant human Ku70 protein fragments expressed in E Coli.
Target Name	Ku70
Preparation and Storage	Store at -20 degree C



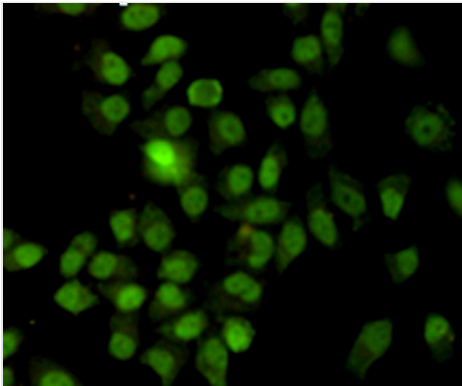
WB (Western Blot)

Western blot detection of Ku70 in HeLa,A549,COS7 and K562 cell lysates using Ku70 antibody (1:1000 diluted).Predicted band size:70KDa.Observed band size:67KDa.



IP (Immunoprecipitation)

Immunoprecipitation analysis of HeLa cell lysates using Ku70 antibody.



ICC (Immunocytochemistry)

Immunocytochemistry staining of HeLa cells fixed with -20 degree C Methanol and using anti-Ku70 antibody (dilution 1:200).

ADDITIONAL INFORMATION

Related Product Information for anti-Ku70 antibody	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. Required for osteocalcin gene expression. 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. 5'-dRP lyase activity 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.
Product Categories/Family for anti-Ku70 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	573014815
NCBI GeneID	2547
NCBI Accession #	NP_001275905.1
NCBI GenBank Nucleotide #	NM_001288976.1

UniProt Accession #	P12956; Q6FG89; Q9UCQ2; Q9UCQ3; B1AHC8
Molecular Weight	65,149 Da
NCBI Official Full Name	X-ray repair cross-complementing protein 6 isoform 1
NCBI Official Synonym Full Names	X-ray repair complementing defective repair in Chinese hamster cells 6
NCBI Official Symbol	XRCC6
NCBI Official Synonym Symbols	ML8; KU70; TLAA; CTC75; CTCBF; G22P1
NCBI Protein Information	X-ray repair cross-complementing protein 6
UniProt Protein Name	X-ray repair cross-complementing protein 6
UniProt Gene Name	XRCC6
UniProt Synonym Gene Names	G22P1; 5'-dRP lyase Ku70; CTC75; CTCBF; Ku70; TLAA
UniProt Entry Name	XRCC6_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/monoclonal/ku70-antibody-clone-7b1-e12-g4-immunoprecipitation-immunocytochemistry-western-blot-elisa/300716>