# Mouse anti-Human Ku70 Monoclonal Antibody | anti-XRCC6 antibody

Ku70 Antibody

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA290516** | **Mouse** | **Human** | **Immunoprecipitation, Immunocytochemistry, Western Blot** |

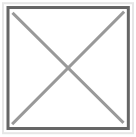
## PRODUCT SYNONYMS

Ku70; Monoclonal Antibody; Ku70 Antibody; Purified Mouse Monoclonal Antibody (Mab); 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; ATP-dependent DNA helicase II 70 kDa subunit; CTC box binding factor 75 kDa subunit; CTC box-binding factor 75 kDa subunit; CTC75; CTCBF; DNA repair protein XRCC6; G22P1; Ku 70; Ku autoantigen 70kDa; Ku autoantigen p70 subunit; Ku autoantigen; 70kDa; Ku p70; Ku70 DNA binding component of DNA-dependent proteinkinase complex (thyroid autoantigen 70 kDa; Kup70; Lupus Ku autoantigen protein p70; ML8; Thyroid autoantigen 70kD (Ku antigen); Thyroid autoantigen; Thyroid lupus autoantigen; Thyroid lupus autoantigen p70; Thyroid-lupus autoantigen; TLAA; X ray repair complementing defective repair in Chinese hamster cells 6; X-ray repair complementing defective repair in Chinese hamster cells 6; X-ray repair cross-complementing protein 6; XRCC 6; XRCC6; XRCC6_HUMAN.; anti-XRCC6 antibody

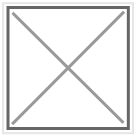
## PRODUCT SPECIFICATIONS

| | |
|---|---|
| **Host** | Mouse |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **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-XRCC6 antibody** | IP (Immunoprecipitation), ICC (Immunocytochemistry), WB (Western Blot) |
| **Antigen Source** | Human |
| **Antigen Type** | Recombinant Protein |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

## IMAGES



**IP (Immunoprecipitation)**
Immunoprecipitation analysis of Hela cell lysates using Ku70 mouse mAb.



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

**WB (Western Blot)**
Western blot detection of Ku70 in Hela,A549,COS7 and K562 cell lysates using Ku70 mouse mAb (1:1000 diluted).Predicted band size:70KDa.Observed band size:67KDa.

## ADDITIONAL INFORMATION

| | |
|---|---|
| **Related Product Information for anti-XRCC6 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-XRCC6 antibody** | Cancer |
| **References** | Chan J.Y.,et al.J. Biol. Chem. 264:3651-3654(1989). Reeves W.H.,et al.J. Biol. Chem. 264:5047-5052(1989). Griffith A.J.,et al.Mol. Biol. Rep. 16:91-97(1992). Ota T.,et al.Nat. Genet. 36:40-45(2004). Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases. |

## 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** | 69843 |
| **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.

**AAA Biotech** | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/ku70-antibody-immunoprecipitation-immunocytochemistry-western-blot-elisa/290516