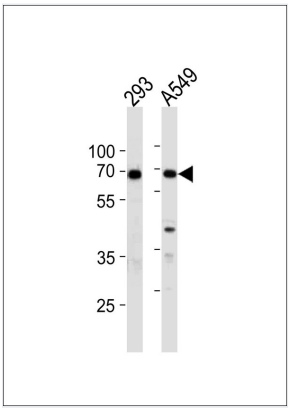
XRCC6 Antibody – Rabbit Polyclonal

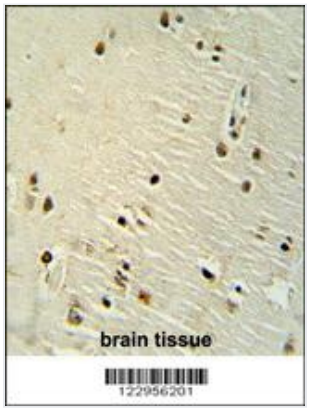
PRODUCT OVERVIEW

Product Name	XRCC6, Polyclonal Antibody
Full Product Name	XRCC6, ID (XRCC6, G22P1, X-ray repair cross-complementing protein 6, 5'-deoxyribose-5-phosphate lyase Ku70, 70kD subunit of Ku antigen, ATP-dependent DNA helicase 2 subunit 1, ATP-dependent DNA helicase II 70kD subunit, CTC box-binding factor 75kD subunit
Product Gene Name	anti-XRCC6 antibody
Product Synonym Names	XRCC6; G22P1; X-ray repair cross-complementing protein 6; 5'-deoxyribose-5-phosphate lyase Ku70; 70kD subunit of Ku antigen; ATP-dependent DNA helicase 2 subunit 1; ATP-dependent DNA helicase II 70kD subunit; CTC box-binding factor 75kD subunit; DNA repair protein XRCC6; Lupus Ku autoantigen protein p70; Thyroid-lupus autoantigen; X-ray repair complementing defective repair in Chinese hamster cells 6
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	69,843 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (42017295..42060052). Location: 22q13.2
OMIM	152690
3D Structure	ModBase 3D Structure for P12956
Immunogen	XRCC6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 235-262 amino acids from the Central region of human XRCC6.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-XRCC6 antibody	Antibodies; DNA Replication; Repair
Applications Tested/Suitable for anti-XRCC6 antibody	Flow Cytometry (FC/FACS), FLISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-XRCC6 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IF: 1:10-50 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.

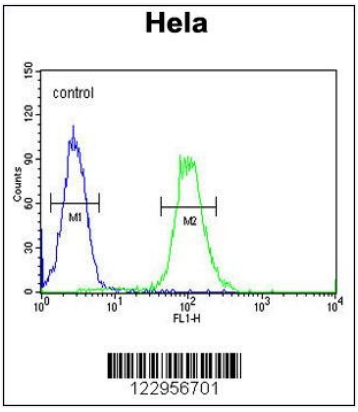
Related Product Information for anti-XRCC6 antibody	The p70/p80 autoantigen is a nuclear complex consisting of two subunits with molecular masses of approximately 70 and 80 kDa. The complex functions as a single-stranded DNA-dependent ATP-dependent helicase. The complex may be involved in the repair of nonhomologous DNA ends such as that required for double-strand break repair, transposition, and V(D)J recombination. High levels of autoantibodies to p70 and p80 have been found in some patients with systemic lupus erythematosus.
Product References and Citations for anti-XRCC6 antibody	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Liu, Y., et al. Carcinogenesis 31(10):1762-1769(2010). Briggs, F.B., et al. Am. J. Epidemiol. 172(2):217-224(2010). Pace, P., et al. Science 329(5988):219-223(2010). Sobczuk, A., et al. Pol J Pathol 61(1):27-31(2010).
Other Notes	Small volumes of anti-XRCC6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for XRCC6 purchase	MBS6364126 is an antibody targeting XRCC6. Also known as XRCC6, ID (XRCC6, G22P1, X-ray repair cross-complementing protein 6, 5'-deoxyribose-5-phosphate lyase Ku70, 70kD subunit of Ku antigen, ATP-dependent DNA helicase 2 subunit 1, ATP-dependent DNA helicase II 70kD subunit, CTC box-binding factor 75kD subunit. Reactive in Human. Host: Rabbit.



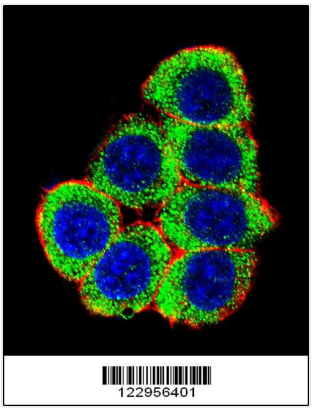
Western Blot (WB) of anti-XRCC6 antibody
XRCC6 Antibody (Center) western blot analysis in 293,A549 cell line lysates (35ug/lane).This demonstrates the XRCC6 antibody detected the XRCC6 protein (arrow).



Immunohistochemistry (IHC) of anti-XRCC6 antibody
XRCC6 antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the XRCC6 antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-XRCC6 antibody
XRCC6 Antibody (Center) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunofluorescence (IF) of anti-XRCC6 antibody
Confocal immunofluorescent analysis of XRCC6 Antibody (Center) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for XRCC6. It may not necessarily be applicable to this product.

NCBI GI #	4503841
NCBI GeneID	2547

NCBI Accession #	NP_001460.1
UniProt Primary Accession #	P12956
UniProt Secondary Accession #	Q6FG89; Q9UCQ2; Q9UCQ3
UniProt Related Accession #	P12956
GenBank Nucleotide #	NM_001469.3
NCBI Official Full Name	X-ray repair cross-complementing protein 6
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
UniProt Protein Name	X-ray repair cross-complementing protein 6
UniProt Synonym Protein Names	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; CTC box-binding factor 75 kDa subunit; CTC75; CTCBF; DNA repair protein XRCC6; Lupus Ku autoantigen protein p70; Ku70; Thyroid-lupus autoantigen; TLAA; X-ray repair complementing defective repair in Chinese hamster cells 6
Protein Family	X-ray repair cross-complementing protein
UniProt Gene Name	XRCC6
UniProt Synonym Gene Names	G22P1; 5'-dRP lyase Ku70; CTC75; CTCBF; Ku70; TLAA
UniProt Entry Name	XRCC6_HUMAN
NCBI Protein Information	X-ray repair cross-complementing protein 6; 5'-dRP lyase Ku70; Ku autoantigen, 70kDa; DNA repair protein XRCC6; Ku autoantigen p70 subunit; 70 kDa subunit of Ku antigen; thyroid-lupus autoantigen p70; lupus Ku autoantigen protein p70; 5'-deoxyribose-5-pho
UniProt Comments for XRCC6	Ku70: a mini-chromosome maintenance protein, essential for the initiation of eukaryotic genome replication. Allows DNA to undergo a single round of replication per cell cycle. Required for the entry in S phase and for cell division. Protein type: Helicase; EC 3.6.4.-; DNA-binding; DNA repair, damage; Nuclear receptor co-regulator; EC 4.2.99.-; RNA-binding Chromosomal Location of Human Ortholog: 22q13.2 Cellular Component: nucleoplasm; transcription factor complex; nuclear telomere cap complex; membrane; nucleolus; cytosol; nucleus Molecular Function: ATP-dependent DNA helicase activity; protein C-terminus binding; protein binding; DNA binding; double-stranded DNA binding; damaged DNA binding; double-stranded telomeric DNA binding; 5'-deoxyribose-5-phosphate lyase activity; ATP binding Biological Process: positive regulation of neurogenesis; V(D)J recombination; transcription, DNA-dependent; viral reproduction; positive regulation of transcription, DNA-dependent; DNA repair; double-strand break repair via nonhomologous end joining; DNA duplex unwinding; DNA ligation; double-strand break repair; positive regulation of interferon type I production; innate immune response; positive regulation of transcription from RNA polymerase II promoter; brain development; negative regulation of transcription, DNA-dependent; telomere maintenance
Research Articles on XRCC6	**1.** XRCC6 C1310G polymorphism is associated with risk of cancer development.
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