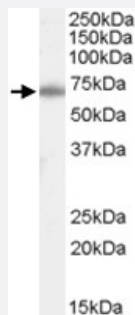


XRCC6 polyclonal antibody

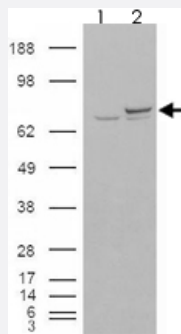
Catalog # PAB7303 Size 100 ug

Applications



Western Blot (Cell lysate)

XRCC6 polyclonal antibody (Cat # PAB7303) (0.1 ug/mL) staining of HeLa cell lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Western Blot (Transfected lysate)

293 overexpressing XRCC6 and probed with XRCC6 polyclonal antibody (Cat # PAB7303) (mock transfection in first lane), tested by Origene.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of XRCC6.
Immunogen	A synthetic peptide corresponding to human XRCC6.
Sequence	YKTEGDDEEAEEEQ-C
Host	Goat
Theoretical MW (kDa)	69.8
Reactivity	Human
Form	Liquid

Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000) Western Blot (0.1-0.3 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

XRCC6 polyclonal antibody (Cat # PAB7303) (0.1 ug/mL) staining of HeLa cell lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Western Blot (Transfected lysate)

293 overexpressing XRCC6 and probed with XRCC6 polyclonal antibody (Cat # PAB7303) (mock transfection in first lane), tested by Origene.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — XRCC6

Entrez GeneID	2547
Protein Accession#	NP_001460.1
Gene Name	XRCC6
Gene Alias	CTC75, CTCBF, G22P1, KU70, ML8, TLAA
Gene Description	X-ray repair complementing defective repair in Chinese hamster cells 6
Omim ID	152690
Gene Ontology	Hyperlink

Gene Summary

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-P-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. [provided by RefSeq]

Other Designations

ATP-dependent DNA helicase II, 70 kDa subunit|CTC box binding factor 75 kDa subunit|Ku autoantigen p70 subunit|Ku autoantigen, 70kDa|OTTHUMP00000028581|thyroid autoantigen 70kD (Ku antigen)|thyroid autoantigen 70kDa (Ku antigen)|thyroid-lupus autoantigen

Publication Reference

- [Distinct faces of the Ku heterodimer mediate DNA repair and telomeric functions.](#)

Ribes-Zamora A, Mihalek I, Lichtarge O, Bertuch AA.

Nature Structural & Molecular Biology 2007 Apr; 14(4):301.

Pathway

- [Non-homologous end-joining](#)

Disease

- [Adenocarcinoma](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Central Nervous System Neoplasms](#)
- [Diabetes Mellitus](#)
- [DNA Damage](#)
- [Edema](#)

- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Genomic Instability](#)
- [Glioma](#)
- [Head and Neck Neoplasms](#)
- [Kidney Failure](#)
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- [Ovarian Neoplasms](#)
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- [Werner syndrome](#)