

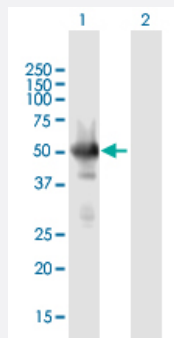
MaxPab®

XRCC4 MaxPab mouse polyclonal antibody (B01)

Catalog # H00007518-B01

Size 50 uL

Applications

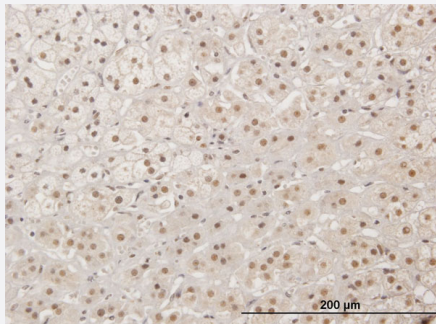


Western Blot (Transfected lysate)

Western Blot analysis of XRCC4 expression in transfected 293T cell line ([H00007518-T01](#)) by XRCC4 MaxPab polyclonal antibody.

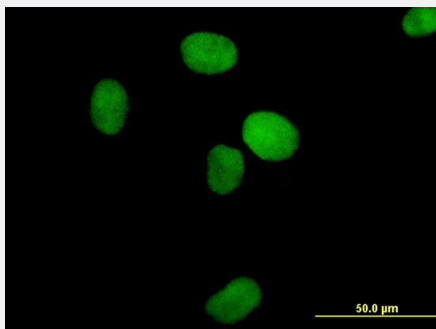
Lane 1: XRCC4 transfected lysate(36.96 KDa).

Lane 2: Non-transfected lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of purified MaxPab antibody to XRCC4 on formalin-fixed paraffin-embedded human adrenal gland. [antibody concentration 3 ug/ml]



Immunofluorescence

Immunofluorescence of purified MaxPab antibody to XRCC4 on HeLa cell. [antibody concentration 10 ug/ml]

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human XRCC4 protein.

Immunogen	XRCC4 (NP_071801.1, 1 a.a. ~ 336 a.a) full-length human protein.
Sequence	MERKISRIHLVSEPSITHFLQVSWEKTLES GFVITLTDGHSAWTGTVSESEISQEADDMAMEKGKY VGELRKALLSGAGPADVYTFNFSKESCYFFFEKNLKDVSFRLGSFNLEKVENPAEVIRELIC YCLD TIAENQAKNEHLQKENERLLRDWNDVQGRFEKCVSAKEALETDL YKRFILVLNEKTKIRSLHNKL LNAAQEREKDIKQEGETAICSEMTADRPVYDESTDEESENQTDLSGLASAAVSKDDSISSLDVT DIAPSRKRRQRMQRNLGTEPKMAPQENQLQEKENS RPDSSLPETSKKEHISAENMSLET LRNSS PEDLFDEI
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (74); Rat (70)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	No additive
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	For IHC and IF applications, antibody purification with Protein A will be needed prior to use.

Applications

- Western Blot (Transfected lysate)

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[Protocol Download](#)

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- Immunofluorescence

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Gene Info — XRCC4

Entrez GeneID	7518
GeneBank Accession#	NM_022406.1
Protein Accession#	NP_071801.1
Gene Name	XRCC4
Gene Alias	-
Gene Description	X-ray repair complementing defective repair in Chinese hamster cells 4
Omim ID	194363
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene functions together with DNA ligase IV and the DNA-dependent protein kinase in the repair of DNA double-strand break by non-homologous end joining and the completion of V(D)J recombination events. The non-homologous end-joining pathway is required both for normal development and for suppression of tumors. This gene functionally complements X R-1 Chinese hamster ovary cell mutant, which is impaired in DNA double-strand breaks produced by ionizing radiation and restriction enzymes. Alternative transcription initiation and alternative splicing generates several transcript variants. [provided by RefSeq]
Other Designations	DNA repair protein XRCC4 X-ray repair cross complementing protein 4 X-ray repair, complementing defective, repair in Chinese hamster

Publication Reference

- [A regulatory role for the cohesin loader NIPBL in nonhomologous end joining during immunoglobulin class switch recombination.](#)

Enervald E, Du L, Visnes T, Bjorkman A, Lindgren E, Wincent J, Borck G, Colleaux L, Cormier-Daire V, van Gent DC, Pie J, Puisac B, de Miranda NF, Kracker S, Hammarstrom L, de Villartay JP, Durandy A, Schoumans J, Strom L, Pan-Hammarstrom Q.

The Journal of Experimental Medicine 2013 Nov; 210(12):2503.

Application: WB-Tr, Human, Fibroblast cells

Pathway

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

Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Colorectal Neoplasms](#)
- [DNA Damage](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Genomic Instability](#)
- [Glioma](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Kidney Failure](#)
- [Leiomyoma](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mouth Neoplasms](#)
- [Multiple Myeloma](#)

- [Multiple Sclerosis](#)
- [Neoplasms](#)
- [Neuroma](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Precancerous Conditions](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Stomach Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Translocation](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)