

# XRCC1 Polyclonal Antibody

Catalog # AP73100

## Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	<a href="#">P18887</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	69498

## Additional Information

Gene ID	7515
Other Names	XRCC1; DNA repair protein XRCC1; X-ray repair cross-complementing protein 1
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

Name	XRCC1 {ECO:0000303   PubMed:2247054, ECO:0000312   HGNC:HGNC:12828}
Function	Scaffold protein involved in DNA single-strand break repair by mediating the assembly of DNA break repair protein complexes (PubMed: <a href="#">11163244</a> , PubMed: <a href="#">28002403</a> ). Negatively regulates ADP- ribosyltransferase activity of PARP1 during base-excision repair in order to prevent excessive PARP1 activity (PubMed: <a href="#">28002403</a> , PubMed: <a href="#">34102106</a> , PubMed: <a href="#">34811483</a> ). Recognizes and binds poly-ADP-ribose chains: specifically binds auto-poly-ADP-ribosylated PARP1, limiting its activity (PubMed: <a href="#">14500814</a> , PubMed: <a href="#">34102106</a> , PubMed: <a href="#">34811483</a> ).
Cellular Location	Nucleus. Chromosome Note=Moves from the nucleoli to the global nuclear chromatin upon DNA damage (PubMed:28002403). Recruited to DNA damage sites following interaction with poly-ADP-ribose chains (PubMed:14500814)
Tissue Location	Expressed in fibroblasts, retinal pigmented epithelial cells and lymphoblastoid cells (at protein level)

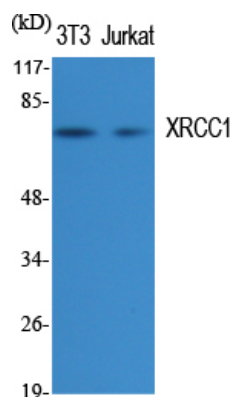
## Background

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Involved in DNA single-strand break repair by mediating the assembly of DNA break repair protein complexes. Probably during DNA repair, negatively regulates ADP-ribose levels by modulating ADP-ribosyltransferase PARP1 activity.

## Images

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Western Blot analysis of various cells using XRCC1 Polyclonal Antibody diluted at 1 : 1000. Secondary antibody was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.