

**XRCC1 Polyclonal Antibody**  
Catalog # AP73100**Specification****XRCC1 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P18887</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**XRCC1 Polyclonal Antibody - 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.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**XRCC1 Polyclonal Antibody - 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: [11163244](http://www.uniprot.org/citations/11163244), PubMed: [28002403](http://www.uniprot.org/citations/28002403)). Negatively regulates ADP- ribosyltransferase activity of PARP1 during base-excision repair in order to prevent excessive PARP1 activity (PubMed: [28002403](http://www.uniprot.org/citations/28002403), PubMed: [34102106](http://www.uniprot.org/citations/34102106), PubMed: [34811483](http://www.uniprot.org/citations/34811483)). Recognizes and binds poly-ADP-ribose chains: specifically binds auto-poly-ADP-ribosylated PARP1, limiting its activity (PubMed: [14500814](http://www.uniprot.org/citations/14500814), PubMed: [34102106](http://www.uniprot.org/citations/34102106), PubMed: [34811483](http://www.uniprot.org/citations/34811483)).

**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

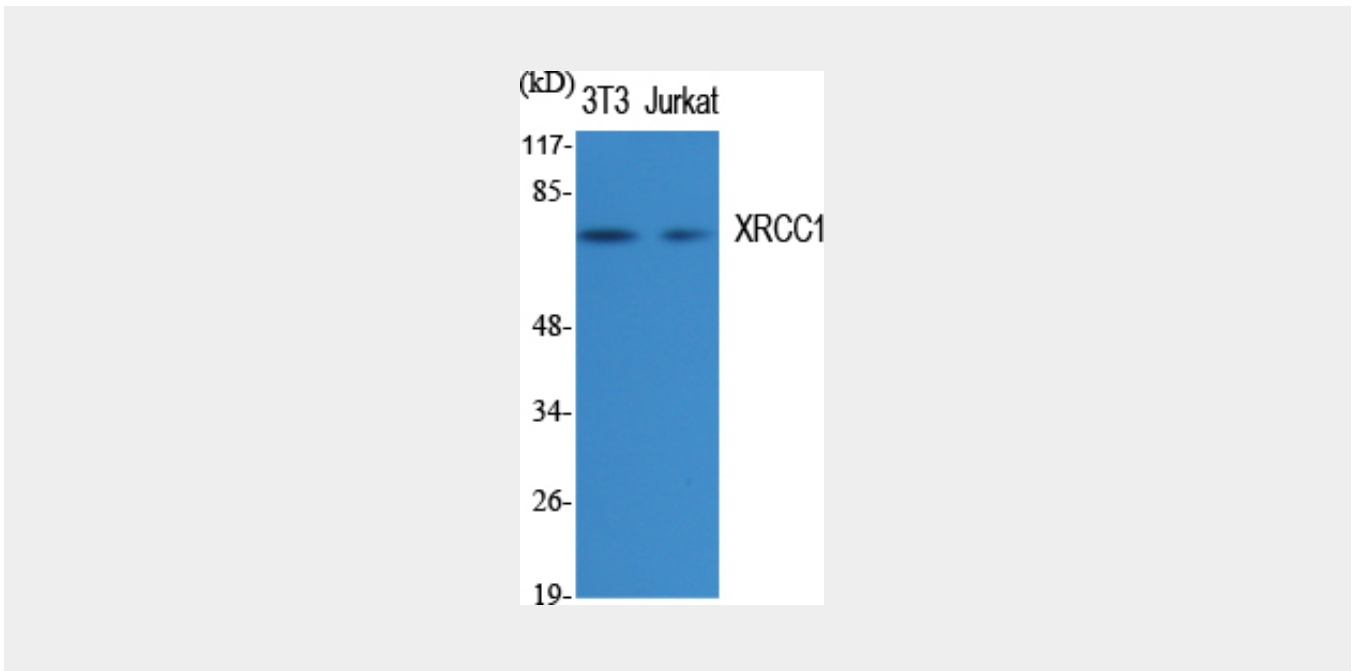
Expressed in fibroblasts, retinal pigmented epithelial cells and lymphoblastoid cells (at protein level)

#### XRCC1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### XRCC1 Polyclonal Antibody - Images



#### XRCC1 Polyclonal Antibody - Background

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.