

# XRCC1 Rabbit mAb

Catalog # AP78620

## Product Information

<b>Application</b>	WB, IHC-P, IF, ICC
<b>Primary Accession</b>	<a href="#">P18887</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human XRCC1
<b>Purification</b>	Affinity Chromatography
<b>Calculated MW</b>	69498

## Additional Information

<b>Gene ID</b>	7515
<b>Other Names</b>	XRCC1
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 ICC~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

<b>Name</b>	XRCC1 {ECO:0000303   PubMed:2247054, ECO:0000312   HGNC:HGNC:12828}
<b>Function</b>	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> ).
<b>Cellular Location</b>	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)
<b>Tissue Location</b>	Expressed in fibroblasts, retinal pigmented epithelial cells and lymphoblastoid

cells (at protein level)

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