

Anti-XRCC1 Rabbit Monoclonal Antibody

Catalog # ABO13783

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	P18887
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-XRCC1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	7515
Other Names	DNA repair protein XRCC1, X-ray repair cross-complementing protein 1, XRCC1 {ECO:0000303 PubMed:2247054, ECO:0000312 HGNC:HGNC:12828}
Calculated MW	69498
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200
Subcellular Localization	Nucleus. Accumulates at sites of DNA damage.
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: ABOH-24
Immunogen	A synthesized peptide derived from human XRCC1
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

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](#), PubMed:[28002403](#)). Negatively regulates ADP- ribosyltransferase activity of PARP1 during base-excision repair in order to prevent excessive PARP1 activity (PubMed:[28002403](#), PubMed:[34102106](#), PubMed:[34811483](#)). Recognizes and binds poly-ADP-ribose chains: specifically binds auto-poly-ADP-ribosylated PARP1, limiting its activity (PubMed:[14500814](#), PubMed:[34102106](#), PubMed:[34811483](#)).

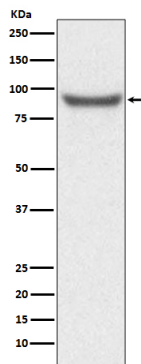
Cellular Location

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)

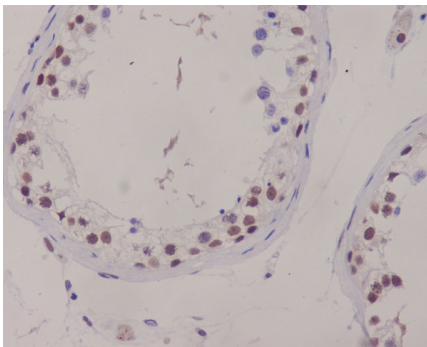
Tissue Location

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

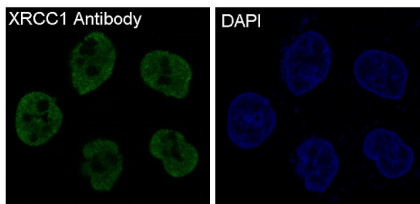
Images



Western blot analysis of XRCC1 expression in HeLa cell lysate.



Immunohistochemical analysis of paraffin-embedded human testis, using XRCC1 Antibody.



Immunofluorescent analysis of HeLa cells, using XRCC1 Antibody.

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