

For Research Use Only

XRCC1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87251-1-PBS



Basic Information

Catalog Number: 87251-1-PBS	GenBank Accession Number: BC023593	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 7515	CloneNo.: 252518B12
Source: Rabbit	UNIPROT ID: P18887	
Isotype: IgG	Full Name: X-ray repair complementing defective repair in Chinese hamster cells 1	
Immunogen Catalog Number: AG15172	Calculated MW: 633 aa, 70 kDa	
	Observed MW: 80-90 kDa	

Applications

Tested Applications:
WB, IF/ICC, Indirect ELISA

Species Specificity:
human

Background Information

XRCC1 (X-ray Repair Cross Complementing group 1) is a molecular scaffold protein that interacts with multiple enzymatic components of DNA single-strand break repair (SSBR) including DNA kinase, DNA phosphatase, DNA polymerase, DNA deadenylase, and DNA ligase activities that collectively are capable of accelerating the repair of a broad range of DNA single-strand breaks (SSBs) (PMID: 18515191). XRCC1 is 633 amino acids in length which is comprised of an N-terminal domain (NTD) of ~160 amino acids that interacts with Pol β , a central BRCT domain of ~90 amino acids that interacts with PARP1 (PMID: 9584196). This antibody is not suitable for murine samples.

Storage

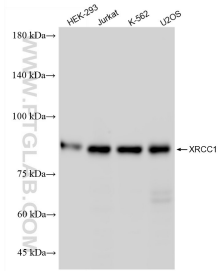
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

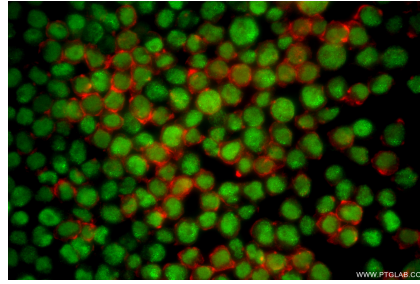
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
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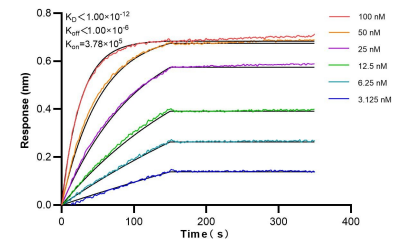
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87251-1-RR (XRC1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87251-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using XRC1 antibody (87251-1-RR, Clone: 252518B12) at dilution of 1:800 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 87251-1-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 87251-1-RR against Human XRC1 were performed. The affinity constant is below 1 pM.