

For Research Use Only

XRCC1 Recombinant monoclonal antibody

Catalog Number:87251-1-RR



Basic Information

Catalog Number: 87251-1-RR	GenBank Accession Number: BC023593	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 7515	CloneNo.: 252518B12
Isotype: IgG	UNIPROT ID: P18887	Recommended Dilutions: WB: 1:2000-1:10000 IF/ICC: 1:400-1:1600
Immunogen Catalog Number: AG15172	Full Name: X-ray repair complementing defective repair in Chinese hamster cells 1	
	Calculated MW: 633 aa, 70 kDa	
	Observed MW: 80-90 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: human	WB : HEK-293 cells, Jurkat cells, K-562 cells, U2OS cells IF/ICC : Jurkat cells,

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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

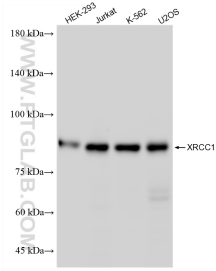
T: 4006900926

E: Proteintech-CN@ptglab.com

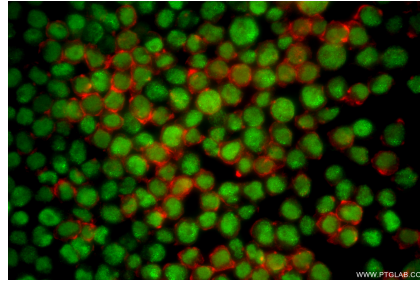
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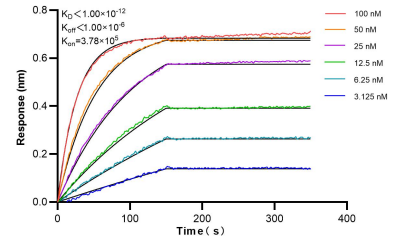
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87251-1-RR (XRCC1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using XRCC1 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).



Bioluminescence resonance energy transfer (BRET) kinetic assays of 87251-1-RR against Human XRCC1 were performed. The affinity constant is below 1 pM.