
Product Name: KD-Validated XRCC3 Mouse Monoclonal Antibody**Catalog #: KVA00511**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 37.9kDa

Antigen Information

Gene Name	XRCC3 XRCC3; X-Ray Repair Cross Complementing 3; DNA Repair Protein XRCC3; X-Ray Repair
Alternative Names	Complementing Defective Repair In Chinese Hamster Cells 3; X-Ray Repair Cross-Complementing Protein 3; RAD51-Like; CMM6
Gene ID	7517.0
SwissProt ID	O43542
Immunogen	Recombinant protein of human XRCC3

Background

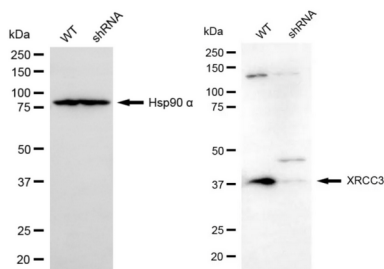
This gene encodes a member of the RecA/Rad51-related protein family that participates in homologous recombination to maintain chromosome stability and repair DNA damage. This gene functionally complements Chinese hamster irs1SF, a repair-

deficient mutant that exhibits hypersensitivity to a number of different DNA-damaging agents and is chromosomally unstable. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]

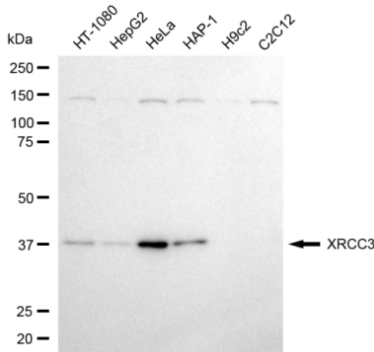
Research Area

Cancer

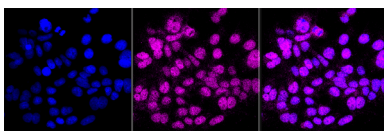
Image Data



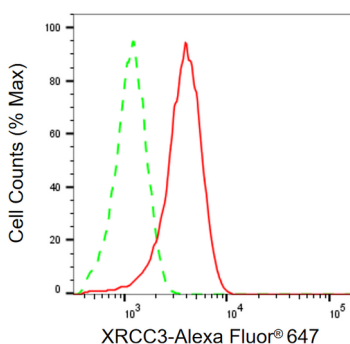
Western blotting analysis using XRCC3 antibody (KVA00511). XRCC3 expression in wild-type (WT) and XRCC3 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with XRCC3 antibody (KVA00511, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using XRCC3 antibody (KVA00511). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with XRCC3 antibody (KVA00511, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with XRCC3 antibody (KVA00511, 1:1,000). Nuclei were stained blue with DAPI; XRCC3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of XRCC3 expression in HeLa cells using XRCC3 antibody (KVA00511, 1:2,000). Green, isotype control; red, XRCC3.