

Product Name: XRCC4 (7C10) Mouse Monoclonal Antibody
Catalog #: AMM03579

Summary

Production Name	XRCC4 (7C10) Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC-F,IHC-P,ICC/IF,IP
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Purification	Affinity Purification

Immunogen

Gene Name	XRCC4
Alternative Names	X ray repair cross complementing protein 4; DNA repair protein XRCC4; DNA double strand break repair
Gene ID	7518
SwissProt ID	Q13426.

Application

Dilution Ratio	WB: 1:500-1:1000 IHC: 1:50-1:100 IF: 1:50-1:200 IP: 1:20
Molecular Weight	Calculated MW: 38 kDa; Observed MW: 38-45 kDa

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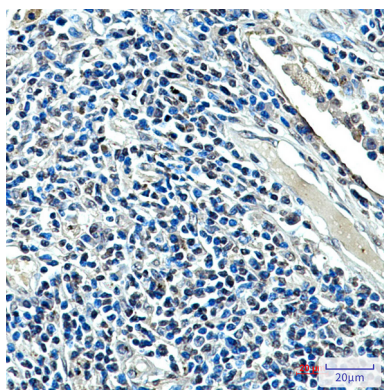
Background

Involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. Binds to DNA and to DNA ligase IV (LIG4). The LIG4-XRCC4 complex is responsible for the NHEJ ligation step, and XRCC4 enhances the joining activity of LIG4. Binding of the LIG4-XRCC4 complex to DNA ends is dependent on the assembly of the DNA-dependent protein kinase complex DNA-PK to these DNA ends.

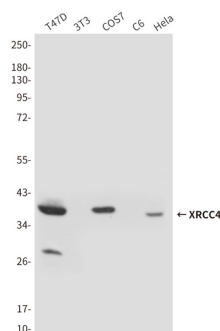
Research Area

Epigenetics and Nuclear Signaling

Image Data

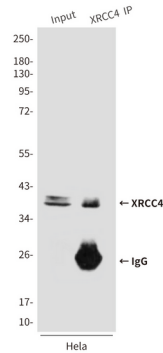


Immunohistochemistry analysis of paraffin-embedded XRCC4 in Human lung cancer using XRCC4 (7C10) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Western blot analysis of XRCC4 (7C10) in T47D, 3T3, COS7, C6 and HeLa lysates using XRCC4 (7C10) antibody

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Immunoprecipitation analysis of XRCC4 in HeLa lysates using XRCC4 antibody.

Note

For research use only.