

XRCC4 antibody

Cat. No. GTX109632

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Applications	WB, ICC/IF, IHC-P
Reactivity	Human, Mouse

References (11)

Package

100 µl, 25 µl

PRODUCT

Summary

XRCC4 antibody detects X-ray repair cross-complementing protein 4 (XRCC4; predicted molecular weight ~38 kDa), a crucial component of the canonical non-homologous end-joining pathway to repair DNA double-strand breaks. The protein functions by stabilizing and activating DNA Ligase IV, as well as bridging the DNA ends. Mutations or disruption of XRCC4 have been linked to a large number of cancers as well as to a form of dwarfism.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:500-1:3000
ICC/IF	1:100-1:1000
IHC-P	1:100-1:1000

Not tested in other applications.

Calculated MW 38 kDa. ([Note](#))

Properties

Form	Liquid
Buffer	PBS, 1% BSA, 20% Glycerol
Preservative	0.025% ProClin 300
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	0.09 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human XRCC4. The exact sequence is proprietary.
Purification	Purified by antigen-affinity chromatography.
Conjugation	Unconjugated



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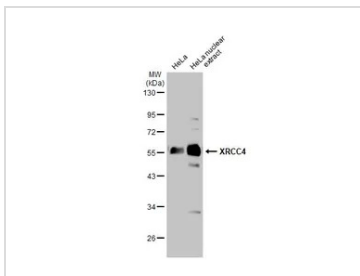
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Note

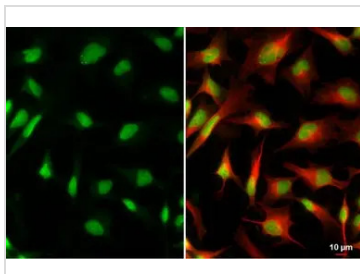
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DATA IMAGES



GTx109632 WB Image

HeLa whole cell and nuclear extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with XRCC4 antibody (GTx109632) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTx213110-01) was used to detect the primary antibody.



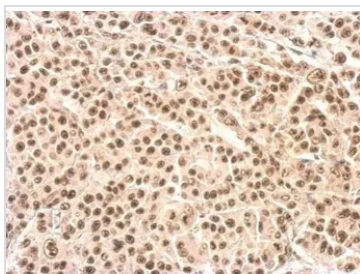
GTx109632 ICC/IF Image

XRCC4 antibody detects XRCC4 protein at nucleus by immunofluorescent analysis.

Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min.

Green: XRCC4 stained by XRCC4 antibody (GTx109632) diluted at 1:200.

Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [GT114] (GTx628802) diluted at 1:1000.



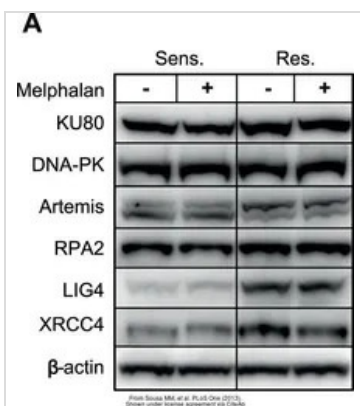
GTx109632 IHC-P Image

XRCC4 antibody detects XRCC4 protein at nucleus on HBL435 xenograft by immunohistochemical analysis.

Sample: Paraffin-embedded HBL435 xenograft.

XRCC4 antibody (GTx109632) dilution: 1:500.

Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min



GTx109632 WB Image

The data was published in the journal PLoS One in 2013. [PMID: 23405159](https://pubmed.ncbi.nlm.nih.gov/23405159/)



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