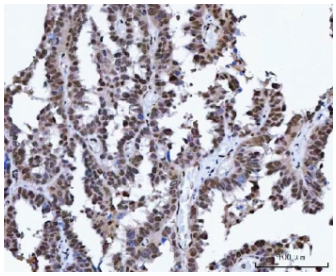
X-ray repair cross-complementing 4 Antibody / XRCC4 (RQ7416)

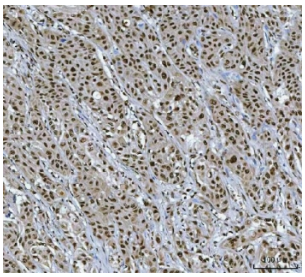
Catalog No.	Formulation	Size
RQ7416	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

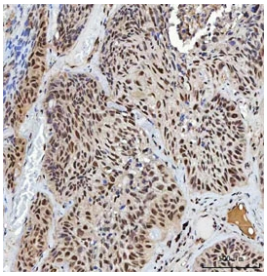
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q13426
Localization	Cytoplasmic, nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This X-ray repair cross-complementing 4 antibody is available for research use only.



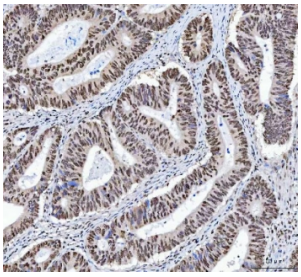
IHC staining of FFPE human ovarian cancer tissue with X-ray repair cross-complementing 4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



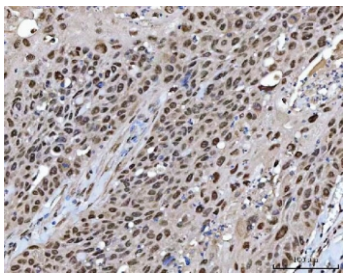
IHC staining of FFPE human breast duct carcinoma tissue with X-ray repair cross-complementing 4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



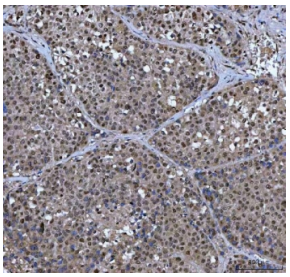
IHC staining of FFPE human lung squamous cell carcinoma tissue with X-ray repair cross-complementing 4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



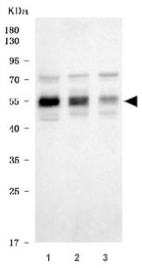
IHC staining of FFPE human colorectal adenocarcinoma tissue with X-ray repair cross-complementing 4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



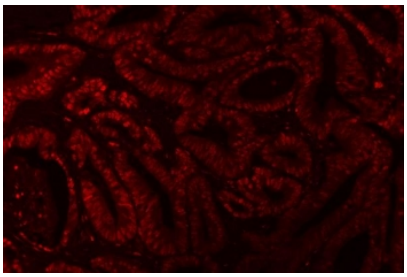
IHC staining of FFPE human penis squamous cell carcinoma tissue with X-ray repair cross-complementing 4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



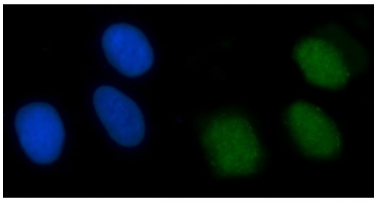
IHC staining of FFPE human liver cancer tissue with X-ray repair cross-complementing 4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



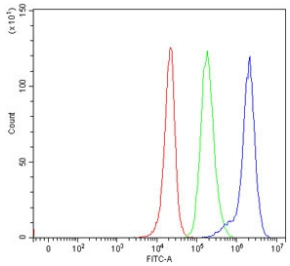
Western blot testing of human 1) HepG2, 2) 293T and 3) A431 cell lysate with X-ray repair cross-complementing 4 antibody. Predicted molecular weight: 35-38/55 kDa (unmodified/phosphorylated).



Immunofluorescent staining of FFPE human colorectal adenocarcinoma tissue with X-ray repair cross-complementing 4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human U-2 OS cells with X-ray repair cross-complementing 4 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human 293T cells with X-ray repair cross-complementing 4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= X-ray repair cross-complementing 4 antibody.

Description

DNA repair protein XRCC4, also known as X-ray repair cross-complementing protein 4 or XRCC4, is a protein that in humans is encoded by the XRCC4 gene. In addition to humans, the XRCC4 protein is also expressed in many other metazoans, fungi and in plants. The X-ray repair cross-complementing protein 4 is one of several coreproteins involved in the non-homologous end joining (NHEJ) pathway to repair DNA double strand breaks(DSBs). Since XRCC4 is the key protein that enables interaction of LigIV to damaged DNA and therefore ligation of the ends, mutations in the XRCC4 gene were found to cause embryonic lethality in mice and developmental inhibition and immunodeficiency in humans. Furthermore, certain mutations in the XRCC4 gene are associated with an increased risk of cancer.

Application Notes

Optimal dilution of the X-ray repair cross-complementing 4 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids M1-D255) was used as the immunogen for the X-ray repair cross-complementing 4 antibody.

Storage

After reconstitution, the X-ray repair cross-complementing 4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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