10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

XRCC6 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1956a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	P12956
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2F7F5
Isotype	IgG1
Calculated MW	69843 Da
Description	The p70/p80 autoantigen is a nuclear complex consisting of two subunits with molecular masses of approximately 70 and 80 kDa. The complex functions as a single-stranded DNA-dependent ATP-dependent helicase. The complex may be involved in the repair of nonhomologous DNA ends such as that required for double-strand break repair, transposition, and V(D)J recombination. High levels of autoantibodies to p70 and p80 have been found in some patients with systemic lupus erythematosus.
Immunogen	Purified recombinant fragment of human XRCC6 (AA: 6-214) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Other Names	X-ray repair cross-complementing protein 6, 3.6.4.-, 4.2.99.-, 5'-deoxyribose-5-phosphate lyase Ku70, 5'-dRP lyase Ku70, 70 kDa subunit of Ku antigen, ATP-dependent DNA helicase 2 subunit 1, ATP-dependent DNA helicase II 70 kDa subunit, CTC box-binding factor 75 kDa subunit, CTC75, CTCBF, DNA repair protein XRCC6, Lupus Ku autoantigen protein p70, Ku70, Thyroid-lupus autoantigen, TLAA, X-ray repair complementing defective repair in Chinese hamster cells 6, XRCC6, G22P1
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	XRCC6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the basal layer of the epidermis with family member KRT14. Mutations in these genes have been associated with a complex of diseases termed epidermolysis bullosa simplex. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. ; ;

References

1. Clin Cancer Res. 2013 Mar 15;19(6):1547-56.2. Mol Carcinog. 2012 Oct;51 Suppl 1:E183-90.

Images

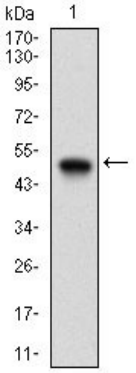


Figure 1: Western blot analysis using XRCC6 mAb against human XRCC6 (AA: 6-214) recombinant protein. (Expected MW is 49.7 kDa)

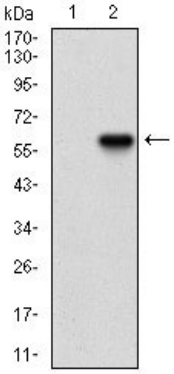


Figure 2: Western blot analysis using XRCC6 mAb against HEK293 (1) and XRCC6 (AA: 6-214)-hIgGFc transfected HEK293 (2) cell lysate.

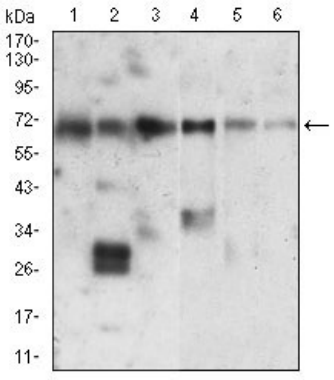
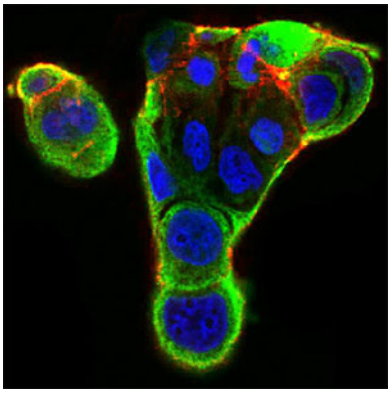


Figure 3: Western blot analysis using XRCC6 mouse mAb against Hela (1), PC-2 (2), A549 (3), A431 (4), HepG2 (5), K562 (6) cell lysate.

Figure 4: Immunofluorescence analysis of MCF-7 cells using XRCC6 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



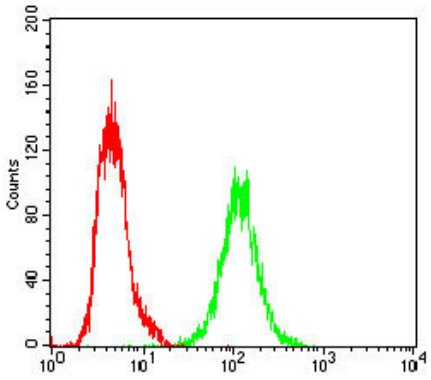


Figure 5: Flow cytometric analysis of A431 cells using XRCC6 mouse mAb (green) and negative control (red).

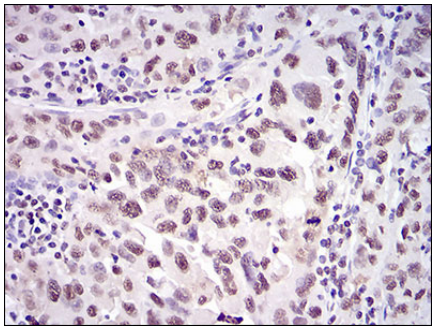


Figure 6: Immunohistochemical analysis of paraffin-embedded endometrial cancer tissues using XRCC6 mouse mAb with DAB staining.