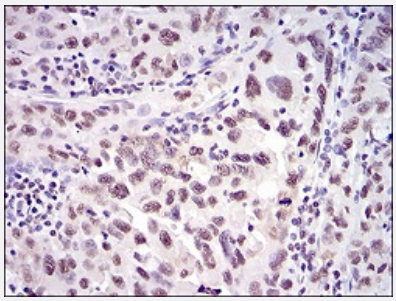
XRCC6 monoclonal antibody, clone 2F7F5

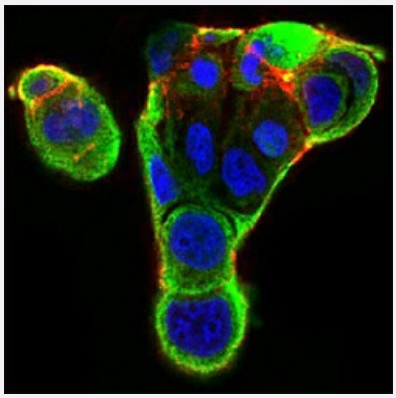
Catalog # MAB16607 Size 100 ug

Applications



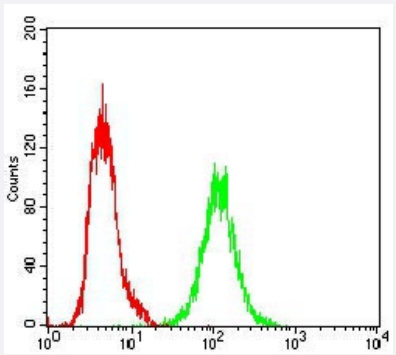
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded endometrial cancer tissues with XRCC6 monoclonal antibody.



Immunocytochemistry

Immunocytochemical staining of MCF-7 cells with XRCC6 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).



Flow Cytometry

Flow cytometric analysis of A431 cells with XRCC6 monoclonal antibody (green) and negative control (red).

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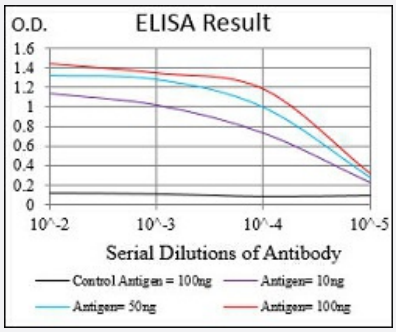
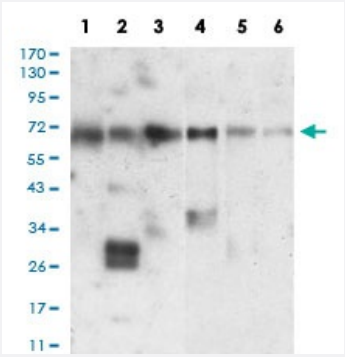


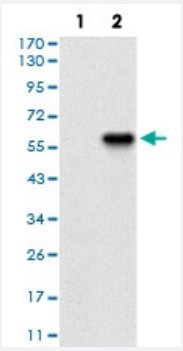
Enzyme-linked Immunoabsorbent Assay

ELISA analysis of XRCC6 monoclonal antibody, clone 2F7F5.



Western Blot (Cell lysate)

Western blot analysis of Lane 1: Hela cell; Lane 2: PC-2 cell; Lane 3: A549 cell; Lane 4: A431 cell; Lane 5: HepG2 cell; Lane 6: K562 cell with XRCC6 monoclonal antibody.



Western Blot (Transfected lysate)

Western blot analysis of Lane 1: HEK293 cell; Lane 2: XRCC6-hIgGFc transfected HEK293 cell with XRCC6 monoclonal antibody.

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human XRCC6.
Immunogen	Recombinant protein corresponding to amino acid 6-214 of human XRCC6 from *E. coli*.
Host	Mouse
Theoretical MW (kDa)	69.8
Reactivity	Human
Form	Liquid
Isotype	IgG1

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Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Immunocytochemistry (1:200-1:1000) Flow Cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining of paraffin-embedded endometrial cancer tissues with XRCC6 monoclonal antibody.

- Immunocytochemistry

  Immunocytochemical staining of MCF-7 cells with XRCC6 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).

- Flow Cytometry

  Flow cytometric analysis of A431 cells with XRCC6 monoclonal antibody (green) and negative control (red).

- Enzyme-linked Immunoabsorbent Assay

  ELISA analysis of XRCC6 monoclonal antibody, clone 2F7F5.

- Western Blot (Cell lysate)

  Western blot analysis of Lane 1: Hela cell; Lane 2: PC-2 cell; Lane 3: A549 cell; Lane 4: A431 cell; Lane 5: HepG2 cell; Lane 6: K562 cell with XRCC6 monoclonal antibody.

- Western Blot (Transfected lysate)

  Western blot analysis of Lane 1: HEK293 cell; Lane 2: XRCC6-hIgGFc transfected HEK293 cell with XRCC6 monoclonal antibody.

Gene Info — XRCC6

Entrez GeneID	2547

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Gene Name	XRCC6
Gene Alias	CTC75, CTCBF, G22P1, KU70, ML8, TLAA
Gene Description	X-ray repair complementing defective repair in Chinese hamster cells 6
Omim ID	152690
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	ATP-dependent DNA helicase II, 70 kDa subunit|CTC box binding factor 75 kDa subunit|Ku autoantigen p70 subunit|Ku autoantigen, 70kDa|OTTHUMP00000028581|thyroid autoantigen 70kD (Ku antigen)|thyroid autoantigen 70kDa (Ku antigen)|thyroid-lupus autoantigen

Pathway

- Non-homologous end-joining

Disease

- Adenocarcinoma
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Central Nervous System Neoplasms
- Diabetes Mellitus
- DNA Damage
- Edema

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- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Genomic Instability
- Glioma
- Head and Neck Neoplasms
- Kidney Failure
- Lung Neoplasms
- Male Urogenital Diseases
- Micronuclei
- Mouth Neoplasms
- Multiple Sclerosis
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms
- Prostate cancer
- Prostatic Neoplasms
- Pterygium
- Radiodermatitis
- Urinary Bladder Neoplasms
- Werner syndrome

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