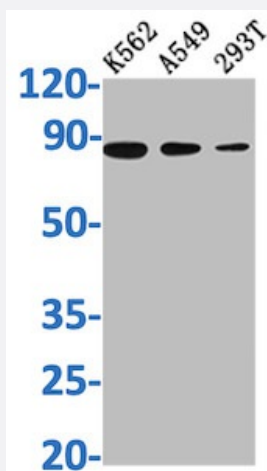


RecomAb™

XRCC5 recombinant monoclonal antibody, clone 5G3

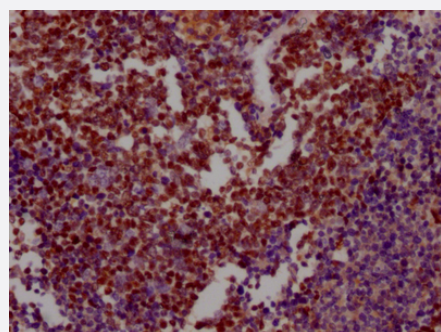
Catalog # RAB03993 Size 100 uL

Applications



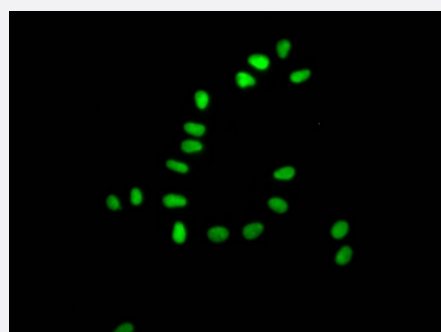
Western Blot

Western Blot analysis of Lane 1: K562 whole cell lysate; Lane 2: A549 whole cell lysate; Lane 3: 293T whole cell lysate.



Immunohistochemistry

Immunohistochemistry image of XRCC5 recombinant monoclonal antibody, clone 5G3 diluted at 1:100 and staining in paraffin-embedded human lung cancer performed on a Leica Bond™ system.



Immunofluorescence

Immunofluorescence staining of HeLa Cells with XRCC5 recombinant monoclonal antibody, clone 5G3 at 1:50, counter-stained with DAPI.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human XRCC5.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to full length human XRCC5.
Theoretical MW (kDa)	Calculated MW: 83 kD
Reactivity	Human
Form	Liquid
Purification	Affinity-chromatography
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) Immunofluorescence(1:20-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western Blot analysis of Lane 1: K562 whole cell lysate; Lane 2: A549 whole cell lysate; Lane 3: 293T whole cell lysate.

- Immunohistochemistry

Immunohistochemistry image of XRCC5 recombinant monoclonal antibody, clone 5G3 diluted at 1:100 and staining in paraffin-embedded human lung cancer performed on a Leica Bond™ system.

- Immunofluorescence

Immunofluorescence staining of Hela Cells with XRCC5 recombinant monoclonal antibody, clone 5G3 at 1:50, counter-stained with DAPI.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — XRCC5

Entrez GeneID	7520
Protein Accession#	P13010
Gene Name	XRCC5
Gene Alias	FLJ39089, KARP-1, KARP1, KU80, KUB2, Ku86, NFIV
Gene Description	X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining)
Omim ID	194364
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is the 80-kilodalton subunit of the Ku heterodimer protein which is also known as ATP-dependant DNA helicase II or DNA repair protein XRCC5. Ku is the DNA-binding component of the DNA-dependent protein kinase, and it functions together with the DNA ligase IV-XRCC4 complex in the repair of DNA double-strand break by non-homologous end joining and the completion of V(D)J recombination events. This gene functionally complements Chinese hamster xrs-6, a mutant defective in DNA double-strand break repair and in ability to undergo V(D)J recombination. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. [provided by RefSeq]
Other Designations	ATP-dependent DNA helicase II DNA repair protein XRCC5 Ku autoantigen, 80kDa Ku86 autoantigen related protein 1 X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining; Ku autoantigen, 80kD) X-ray repair, comp

Pathway

- [Non-homologous end-joining](#)

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)

- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Central Nervous System Neoplasms](#)
- [Colorectal Neoplasms](#)
- [DNA Damage](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Genital Neoplasms](#)
- [Genomic Instability](#)
- [Glioma](#)
- [Head and Neck Neoplasms](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mouth Neoplasms](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Precancerous Conditions](#)

- [Pulmonary Disease](#)
- [Radiation Injuries](#)
- [Radiodermatitis](#)
- [Stomach Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Translocation](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)