

XRCC5 Antibody (monoclonal) (M02)**Mouse monoclonal antibody raised against a full length recombinant XRCC5.****Catalog # AT4553a****Specification**

XRCC5 Antibody (monoclonal) (M02) - Product Information

Application	WB, IHC, IF, E
Primary Accession	P13010
Other Accession	BC019027
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	82705

XRCC5 Antibody (monoclonal) (M02) - Additional Information**Gene ID** 7520**Other Names**

X-ray repair cross-complementing protein 5, 364-, 86 kDa subunit of Ku antigen, ATP-dependent DNA helicase 2 subunit 2, ATP-dependent DNA helicase II 80 kDa subunit, CTC box-binding factor 85 kDa subunit, CTC85, CTCBF, DNA repair protein XRCC5, Ku80, Ku86, Lupus Ku autoantigen protein p86, Nuclear factor IV, Thyroid-lupus autoantigen, TLAA, X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining), XRCC5, G22P2

Target/Specificity

XRCC5 (AAH19027.1, 1 a.a. ~ 732 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 kDa.

Dilution

WB~~1:500~1000

IHC~~1:100~500

IF~~1:50~200

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

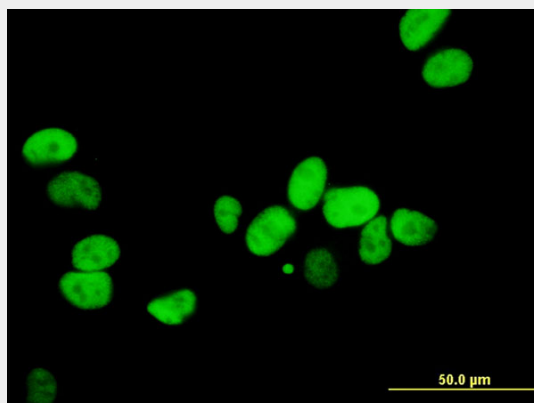
XRCC5 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

XRCC5 Antibody (monoclonal) (M02) - Protocols

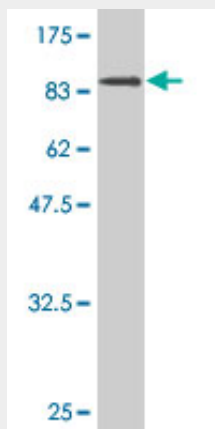
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

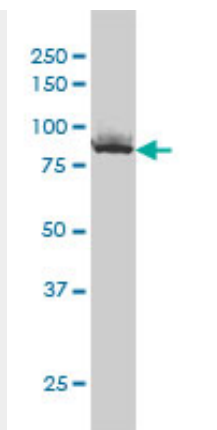
XRCC5 Antibody (monoclonal) (M02) - Images



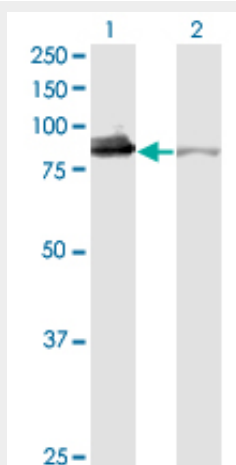
Immunofluorescence of monoclonal antibody to XRCC5 on HeLa cell . [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (106.26 KDa) .



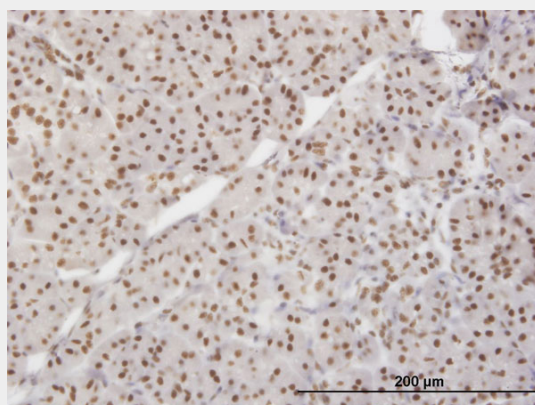
XRCC5 monoclonal antibody (M02), clone 3D8. Western Blot analysis of XRCC5 expression in A-431 (Cat # AT4553a)



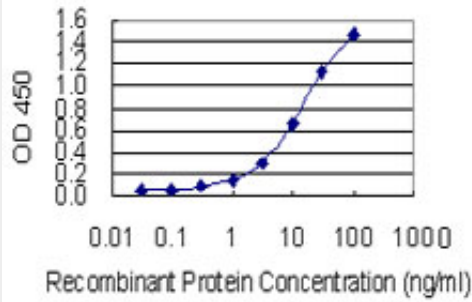
Western Blot analysis of XRCC5 expression in transfected 293T cell line by XRCC5 monoclonal antibody (M02), clone 3D8.

Lane 1: XRCC5 transfected lysate(82.7 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to XRCC5 on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged XRCC5 is 0.3 ng/ml as a capture antibody.

XRCC5 Antibody (monoclonal) (M02) - Background

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.

XRCC5 Antibody (monoclonal) (M02) - References

1. Serum anti-Ku86 is a potential biomarker for early detection of hepatitis C virus-related hepatocellular carcinoma. Nomura F, Sogawa K, Noda K, Seimiya M, Matsushita K, Miura T, Tomonaga T, Yoshitomi H, Imazeki F, Takizawa H, Mogushi K, Miyazaki M, Yokosuka O. *Biochem Biophys Res Commun.* 2012 Apr 25.