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XRCC5 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a full length recombinant XRCC5.
Catalog # AT4553a

Product Information

Application	WB, IHC, IF, E
Primary Accession	P13010
Other Accession	BC019027
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3D8
Calculated MW	82705

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.

Background

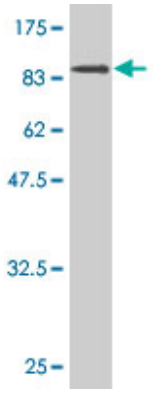
The protein encoded by this gene is the 80-kilodalton subunit of the Ku heterodimer protein which is also known as ATP-dependant DNA helicase II or DNA repair protein XRCC5. Ku is the DNA-binding component of the DNA-dependent protein kinase, and it functions together with the DNA ligase IV-XRCC4 complex 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.

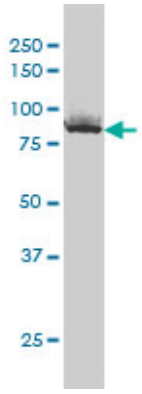
References

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.

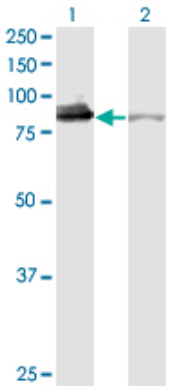
Images



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



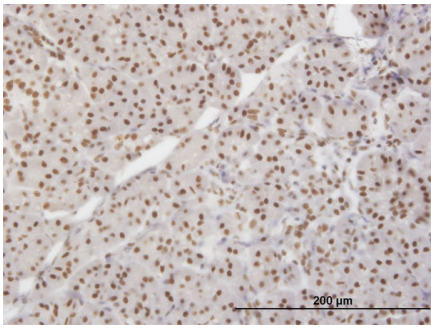
XRCC5 monoclonal antibody (M02), clone 3D8. Western Blot analysis of XRCC5 expression in A-431 ((Cat # AT4553a)

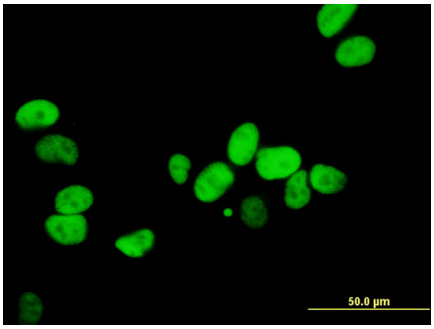


Western Blot analysis of XRCC5 expression in transfected 293T cell line by XRCC5 monoclonal antibody (M02), clone 3D8.

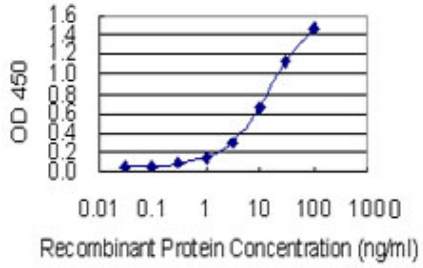
Lane 1: XRCC5 transfected lysate(82.7 KDa).
Lane 2: Non-transfected lysate.

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





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



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.