

XRCC5 Antibody (monoclonal) (M02)

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

Product Information

Primary AccessionP13010Other AccessionBC019027ReactivityHumanHostmouseClonalitymonoclonalIsotypeIgG1 KappaClone Names3D8Calculated MW82705	Application	WB, IHC, IF, E
Other AccessionBC019027ReactivityHumanHostmouseClonalitymonoclonalIsotypeIgG1 KappaClone Names3D8Calculated MW82705	Primary Accession	<u>P13010</u>
ReactivityHumanHostmouseClonalitymonoclonalIsotypeIgG1 KappaClone Names3D8Calculated MW82705	Other Accession	<u>BC019027</u>
HostmouseClonalitymonoclonalIsotypeIgG1 KappaClone Names3D8Calculated MW82705	Reactivity	Human
ClonalitymonoclonalIsotypeIgG1 KappaClone Names3D8Calculated MW82705	Host	mouse
IsotypeIgG1 KappaClone Names3D8Calculated MW82705	Clonality	monoclonal
Clone Names3D8Calculated MW82705	Isotype	IgG1 Kappa
Calculated MW 82705	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. \sim 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



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'.