

Product datasheet for **TA347072M**

Ku80 (XRCC5) Mouse Monoclonal Antibody [Clone ID: 8H1-C3-G10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	8H1-C3-G10
Applications:	IF, IP, WB
Recommended Dilution:	WB: 1:1000, IF: 1:400, IP: 1:100
Reactivity:	Human, Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The immunogen for XRCC5 antibody: purified recombinant human Ku80 protein fragments expressed in E.coli
Formulation:	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.02% sodium azide and 50% glycerol.
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	86 kDa
Gene Name:	X-ray repair complementing defective repair in Chinese hamster cells 5
Database Link:	NP_066964 Entrez Gene 574279 Monkey Entrez Gene 7520 Human P13010

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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. (provided by RefSeq, Jul 2008).
Synonyms:	KARP-1; KARP1; KU80; Ku86; KUB2; NFIV
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Non-homologous end-joining