

## Product datasheet for **AM06649SU-N**

### **Ku80 (XRCC5) Mouse Monoclonal Antibody [Clone ID: 5C5]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	5C5
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	<b>Western Blot:</b> 1/500 - 1/2000. <b>Immunohistochemistry on paraffin sections:</b> 1/200 - 1/1000. <b>Immunofluorescence:</b> 1/200 - 1/1000. <b>Flow cytometry:</b> 1/200 - 1/400. <b>ELISA:</b> 1/10000.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human XRCC5 expressed in E. Coli.
Specificity:	This antibody reacts to XRCC5.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	86 kDa
Gene Name:	X-ray repair complementing defective repair in Chinese hamster cells 5
Database Link:	<a href="#">Entrez Gene 7520 Human P13010</a>



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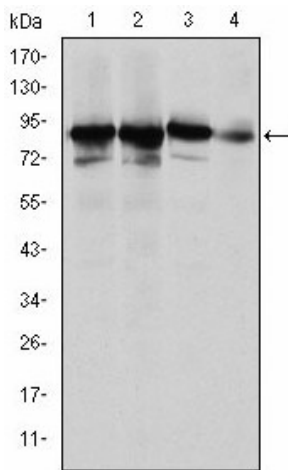
**Background:**

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.

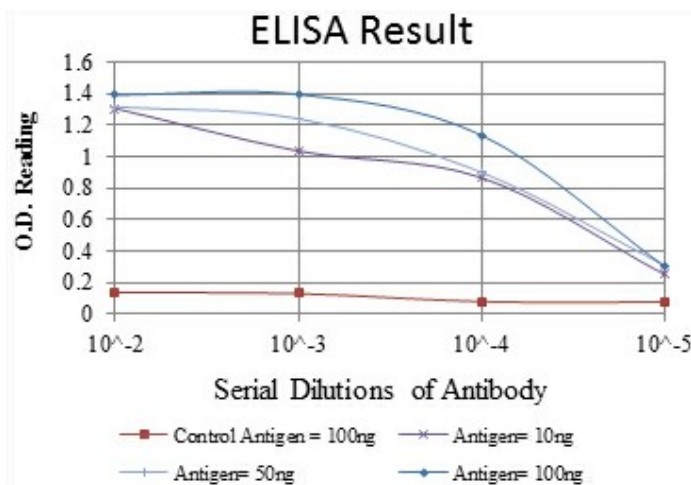
**Synonyms:**

TLAA, G22P2, CTCBF, CTC85

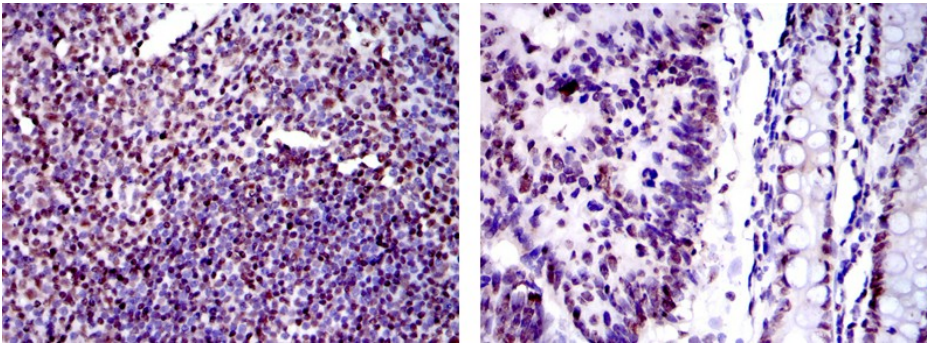
**Product images:**



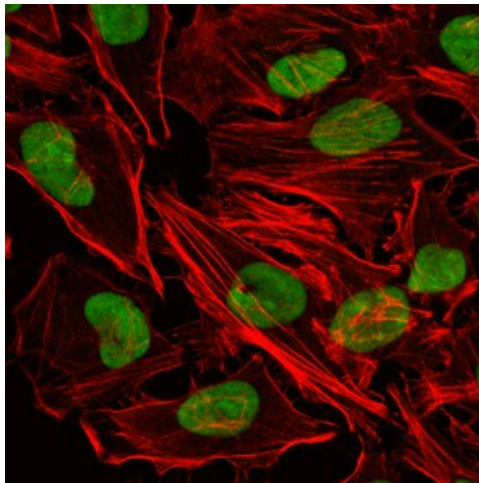
Western blot analysis using XRCC5 mouse mAb against HeLa (1), MCF-7 (2), A549 (3) and NIH/3T3 (4) cell lysate.



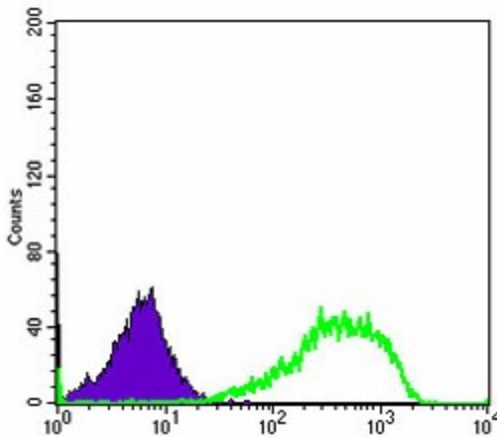
Red: Control Antigen (100ng) Purple: Antigen (10ng) Green: Antigen (50ng) Blue: Antigen (100ng)



Immunohistochemical analysis of paraffin-embedded human tonsil tissues (left) and human colon cancer tissues (right) using XRCC5 mouse mAb with DAB staining.



Immunofluorescence analysis of HeLa cells using XRCC5 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of HeLa cells using XRCC5 mouse mAb (green) and negative control (purple).