

Anti-XRCC5/Ku80 Antibody (9R86)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse
Molecular Weight:	Theoretical: 83 kDa.
Clone:	9R86
Purification:	Protein A purified

Applications

Verified Activity:

- 1. Cell line: HeLa**
Fixative: 4% Paraformaldehyde
Permeabilization: 0.1% TritonX-100
Primary ab dilution: 1:50
Primary incubation condition: 4°C overnight
Secondary ab: Goat Anti-Rabbit IgG
Nuclear counter stain: DAPI (Blue)
Comment: Color green is the positive signal for TMAB-14223
- 2. Cell line: NIH/3T3**
Fixative: 4% Paraformaldehyde
Permeabilization: 0.1% TritonX-100
Primary ab dilution: 1:50
Primary incubation condition: 4°C overnight
Secondary ab: Goat Anti-Rabbit IgG
Nuclear counter stain: DAPI (Blue)
Comment: Color green is the positive signal for TMAB-14223
- 3. Tissue: Mouse colon**
Section type: Formalin fixed & Paraffin-embedded section
Retrieval method: High temperature and high pressure
Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:1000
Primary ab incubation condition: 1 hour at room temperature
Counter stain: Hematoxylin
Comment: Color brown is the positive signal for TMAB-14223
- 4. Tissue: Mouse stomach**
Section type: Formalin fixed & Paraffin-embedded section
Retrieval method: High temperature and high pressure
Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:1000
Primary ab incubation condition: 1 hour at room temperature
Counter stain: Hematoxylin
Comment: Color brown is the positive signal for TMAB-14223
- 5. Paraformaldehyde-fixed, paraffin embedded (human cervical carcinoma);** Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (XRCC5/Ku80) Monoclonal Antibody, Unconjugated (TMAB-14223) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

6. Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (XRCC5/Ku80) Monoclonal Antibody, Unconjugated (TMAB-14223) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

7. HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (XRCC5/Ku80) monoclonal Antibody, Unconjugated (TMAB-14223) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.

Application: IHC-P,IHC-Fr,ICC/IF,IF

Recommended IHC-P: 1:100-1000; IHC-Fr: 1:100-1000; ICC/IF: 1:100-500; IF: 1:100-1000

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human XRCC5/Ku80

Antigen Species: Human

Gene ID: 7520

Uniprot ID: P13010

Research 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.

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