Product datasheet Anti-KU70/XRCC6 Antibody

Catalog Number: BM5077



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Basic Inform	nation	
Product Name	Anti-KU70/XRCC6 Antibody	
Gene Name	XRCC6	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, IHC, ICC/IF, IP, FCM	
Contents	500 ug/ml;Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.	
Immunogen	A synthesized peptide derived from human Ku70	
concentration	500 ug/ml	
Purification	Affinity-chromatography	
Observed MW	70KD	
Dilution Ratios	Western blot (WB): Immunohistochemistry in paraffin section (IHC): Immunocytochemistry/Immunofluorescence(ICC/IF Immunocoprecipitation: Flow cytometry (FCM):	1:500-2000 1:20-100):1:20-100 1:20 1:20

Storage

12 months from date of receipt, -20° C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

XRCC6 (X-Ray Repair, Complementing Defective, In Chinese Hamster, 6), also called Ku70, G22P1 or TLAA, is a protein that in humans, is encoded by the XRCC6 gene. In addition, the XRCC6 gene encodes subunit p70 of the p70/p80 autoantigen which consists of 2 proteins of molecular mass of approximately 70,000 and 80,000 daltons that dimerize to form a 10 S DNA-binding complex. The XRCC6 gene is mapped to 22q13.2. XRCC6 and Mre11 are differentially expressed during meiosis. XRCC6 interacts with Baxa, a mediator of mitochondrial-dependent apoptosis. Disruption of both FANCC and XRCC6 suppressed sensitivity to crosslinking agents, diminished chromosome breaks, and reversed defective homologous recombination. Ku70 binds directly to free DNA ends, committing them to NHEJ repair. In early meiotic prophase, however, when meiotic recombination is most probably initiated, Mre11 was abundant, whereas XRCC6 was not detectable.

Selected Validation Data

Product datasheet

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