

## **XRCC6 Antibody (monoclonal) (M05)**

**Mouse monoclonal antibody raised against a full-length recombinant XRCC6.**

**Catalog # AT4554a**

### **Specification**

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#### **XRCC6 Antibody (monoclonal) (M05) - Product Information**

Application	IF, WB, E
Primary Accession	<a href="#">P12956</a>
Other Accession	<a href="#">BC018259</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	69843

#### **XRCC6 Antibody (monoclonal) (M05) - Additional Information**

**Gene ID** 2547

##### **Other Names**

X-ray repair cross-complementing protein 6, 364-, 4299-, 5'-deoxyribose-5-phosphate lyase Ku70, 5'-dRP lyase Ku70, 70 kDa subunit of Ku antigen, ATP-dependent DNA helicase 2 subunit 1, ATP-dependent DNA helicase II 70 kDa subunit, CTC box-binding factor 75 kDa subunit, CTC75, CTCBF, DNA repair protein XRCC6, Lupus Ku autoantigen protein p70, Ku70, Thyroid-lupus autoantigen, TLAA, X-ray repair complementing defective repair in Chinese hamster cells 6, XRCC6, G22P1

##### **Target/Specificity**

XRCC6 (AAH18259, 1 a.a. ~ 609 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 kDa.

##### **Dilution**

WB~~1:500~1000

##### **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**

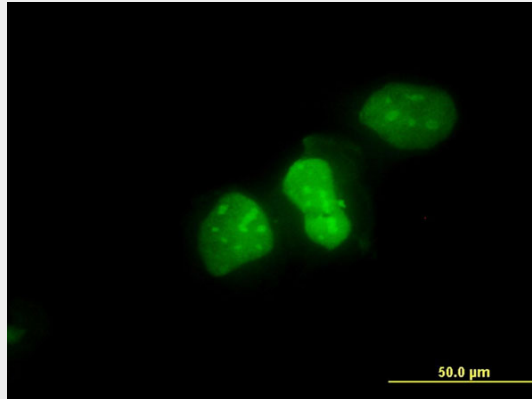
XRCC6 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

#### **XRCC6 Antibody (monoclonal) (M05) - Protocols**

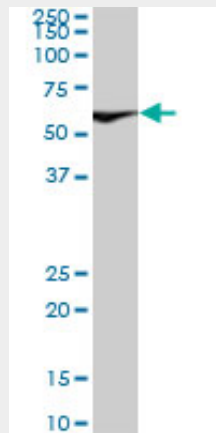
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

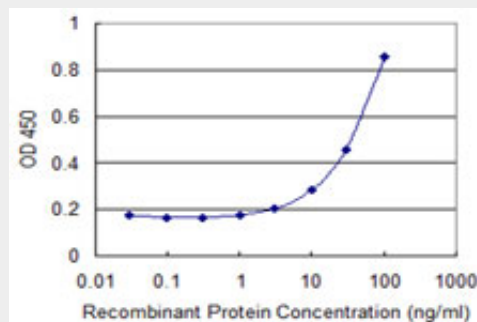
### XRCC6 Antibody (monoclonal) (M05) - Images



Immunofluorescence of monoclonal antibody to XRCC6 on HeLa cell . [antibody concentration 10 ug/ml]



XRCC6 monoclonal antibody (M05), clone 3D12. Western Blot analysis of XRCC6 expression in HeLa S3 NE ( Cat # L013V3 ).



Detection limit for recombinant GST tagged XRCC6 is 1 ng/ml as a capture antibody.

### **XRCC6 Antibody (monoclonal) (M05) - Background**

The p70/p80 autoantigen is a nuclear complex consisting of two subunits with molecular masses of approximately 70 and 80 kDa. The complex functions as a single-stranded DNA-dependent ATP-dependent helicase. The complex may be involved in the repair of nonhomologous DNA ends such as that required for double-strand break repair, transposition, and V(D)J recombination. High levels of autoantibodies to p70 and p80 have been found in some patients with systemic lupus erythematosus.

### **XRCC6 Antibody (monoclonal) (M05) - References**

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. *Diabetes Care*, 2010 Jul 13. PMID 20628086. Gamma-Radiation Sensitivity and Polymorphisms in RAD51L1 Modulate Glioma Risk. Liu Y, et al. *Carcinogenesis*, 2010 Jul 7. PMID 20610542. Ku70 corrupts DNA repair in the absence of the Fanconi anemia pathway. Pace P, et al. *Science*, 2010 Jul 9. PMID 20538911. Variation within DNA repair pathway genes and risk of multiple sclerosis. Briggs FB, et al. *Am J Epidemiol*, 2010 Jul 15. PMID 20522537. Analysis of the polymorphisms in non-homologous DNA end joining (NHEJ) gene Ku70 and Ligase IV in sporadic breast cancer in women. Sobczuk A, et al. *Pol J Pathol*, 2010. PMID 20496270.