

**MONOCLONAL ANTIBODY**

*For research use only, Not for diagnostic use.*

**Catalog No. KUP-TM-M01**

# Anti XPA [ Clone : A-2 ]

## BACKGROUND

Nucleotide excision repair (NER) is a major repair system for removing a variety of DNA lesions including UV-induced cyclobutane pyrimidine dimer and (6-4) photoproduct as well as chemical-induced bulky base adducts. Defects in the NER system give rise to xeroderma pigmentosum (XP), an autosomal recessive disease characterized by a predisposition to skin cancer and in some cases neurological abnormalities. The early process of human NER, from damage recognition to dual incision (removal of damage-containing oligonucleotides), is accomplished by six core NER factors, XPC-RAD23B, TFIIH, **XPA**, RPA, ERCC1-XPF and XPG *in vitro*.

**XPA** has an ability to bind to DNA with some preference to damaged DNA and interacts with most of other NER factors. **XPA** appears to be involved in a proper assembly of preincision complex and verification of damaged DNA strand.

<b>Product type</b>	Primary antibody
<b>Immunogen</b>	GST-XPA expressed in E. coli and affinity-purified by glutathione column
<b>Rased in</b>	Mouse
<b>Myeloma</b>	-
<b>Clone number</b>	A-2
<b>Isotype</b>	Undetermined
<b>Host</b>	-
<b>Source</b>	Culture supernatant
<b>Purification</b>	Partially purified from culture supernatant by 50% ammonium sulfate
<b>Buffer</b>	-
<b>Concentration</b>	-
<b>Volume</b>	100 ul
<b>Label</b>	Unlabeled
<b>Specificity</b>	XPA Epitope: amino acid residues 75-91
<b>Cross reactivity</b>	Human
<b>Storage</b>	Store below -20°C (below -70°C for prolonged storage). Aliquot to avoid cycles of freeze/thaw..

<b>Application notes</b>	• <b>Western blotting:</b> 1/1,000
<b>Recommended dilutions</b>	Predicted molecular weight, 31 kDa  Other applications have not been tested. Optimal dilutions/concentrations should be determined by the end user.

<b>References</b>	1) Nagao A, Zhao X, Takegami T, et al., Multiple shRNA expressions in a single plasmid vector improve RNAi against the XPA gene. Biochem. Biophys. Res. Commun. 370, 301-305, 2008
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## ANTIBODY CHARACTERIZATION

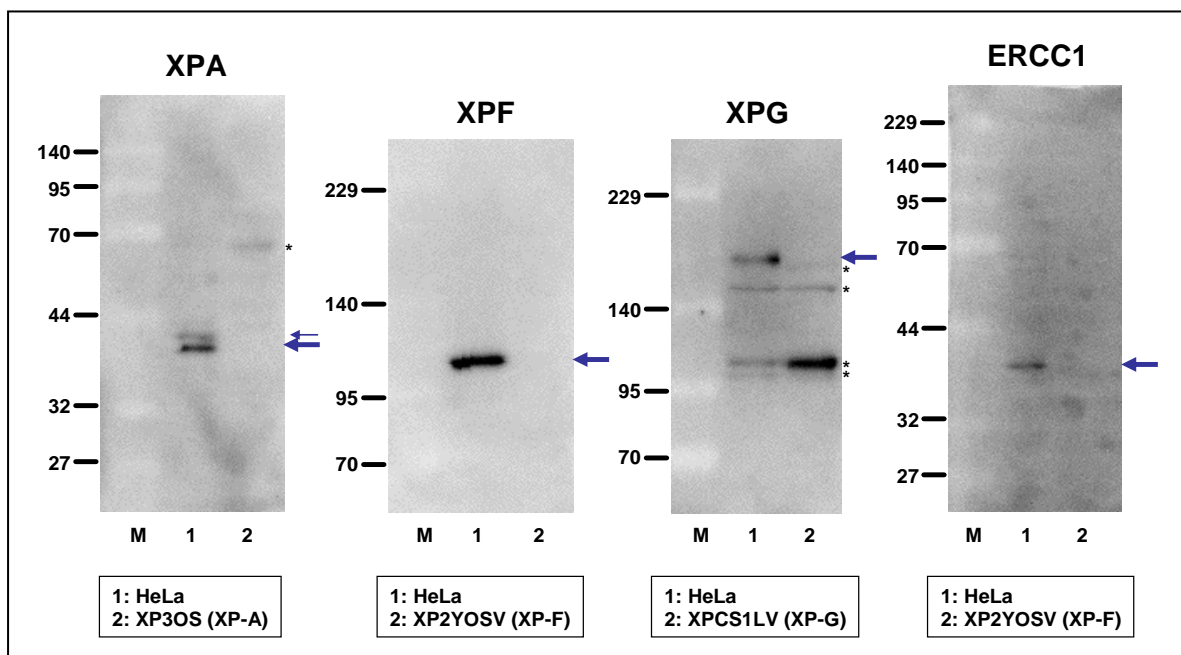


Fig.1

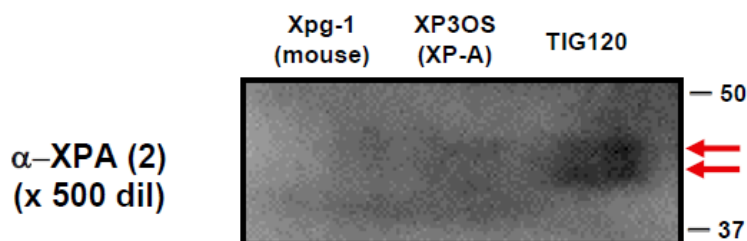


Fig.2

## RELATED PRODUCT:

Product Name	Maker	Cat#
Anti cyclobutane pyrimidine dimers (CPDs) Monoclonal Antibody (Clone:TDM-2)	CAC	NM-DND-001
Anti (6-4) photoproducts (6-4PPs) Monoclonal Antibody (Clone:64M-2)	CAC	NM-DND-002
Anti Dewar photoproducts (DewarPPs) Monoclonal Antibody (Clone:DEM-1)	CAC	NM-DND-003
Anti Acetylaminofluorene(AAF)-DNA adducts Monoclonal Antibody (Clone:AAF-1)	CAC	NM-MA-001
Anti XPF Monoclonal Antibody (Clone:19-16 )	CAC	KUP-TM-M02
Anti XPG Monoclonal Antibody (Clone:G-26)	CAC	KUP-TM-M03
Anti ERCC1 Monoclonal Antibody (Clone:E1-44)	CAC	KUP-TM-M04
Anti DDB1 Monoclonal Antibody (Clone:43233-3-1)	CAC	KUP-TM-M05
PROTAMINE SULFATE COATED ELISA PLATE 96	CSR	NM-MA-P001
PROTAMINE SULFATE COATED ELISA PLATE 96 x 5	CSR	NM-MA-P002
PROTAMINE SULFATE COATED ELISA PLATE 96 x 10	CSR	NM-MA-P003

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