

MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. KUP-TM-M04

Anti ERCC1 monoclonal antibody [Clone: E1-44]

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*.

ERCC1 forms a stable complex with XPF and the heterodimer has an ability to make a nick on the DNA strand which makes the transition from duplex to single-stranded DNA in the 5' to 3' direction. In the NER process, ERCC1-XPF complex is responsible for 5'-incision at a dual incision step

Product type Primary antibodies

Host Mouse

Source Partially purified from culture supernatant by 50% ammonium sulfate

Antigen MBP-ERCC1 expressed in E. coli and affinity-purified by amylose column

 Clone
 E1-44

 Isotype
 IgG1 (k)

Application notes Western blotting, 1/1,000

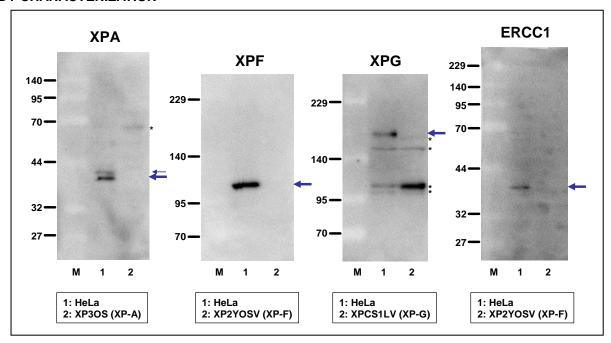
Perdicted molecular weight: 32.5 kDa Epitope, amino acid residues 54-68

Cross reactivity Human

Storage Store below -20°C (below -70°C for prolonged storage).

Aliquot to avoid cycles of freeze/thaw..

ANTIBODY CHARACTERIZATION



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 XPA Monoclonal Antibody (Clone:A-2)	CAC	KUP-TM-M01
Anti XPF Monoclonal Antibody (Clone:19-16)	CAC	KUP-TM-M02
Anti XPG Monoclonal Antibody (Clone:G-26)	CAC	KUP-TM-M03
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

For research use only. Not for clinical diagnosis.



COSMO BIO CO., LTD.

[JAPAN]

TOYO EKIMAE BLDG. 2-20, TOYO 2-CHOME, KOTO-KU. TOKYO 135-0016, JAPAN Phone: +81-3-5632-9610 FAX: +81-3-5632-9619 URL: https://www.cosmobio.co.jp/



COSMO BIO USA

[Outside Japan] 2792 Loker Ave West, Suite 101 Carlsbad, CA 92010, USA email: info@cosmobiousa.com Phone/FAX: (+1) 760-431-4600 URL: www.cosmobiousa.com