

Product Specification Sheet

Human Exchange Repair Cross Complementing (ERCC1) Antibodies

Cat # ERCC11-M,

Mouse Monoclonal Anti-Human ERCC1 antibody # 1

SIZE: 100 ug

Exchange Repair Cross Complementing (ERCC1) gene encodes 33-36 kDa protein involved in DNA repair. It is homologous to *Saccharomyces cerevisiae* RAD10, which functions in repair and mitotic intrachromosomal recombination. The structure-specific ERCC1/XPF endonuclease complex is implicated in the repair of two distinct types of lesions in DNA: NER for UV-induced lesions and bulky chemical adducts; and recombination repair of the very genotoxic interstrand cross-links. NER mechanism involves dual incisions on both sides of the damage catalyzed by two nucleases. In mammalian cells XPG cleaves 3' of the DNA lesion while the ERCC1-XPF complex makes the 5' incision. Elevated levels of ERCC1 have also been reported in Cisplatin-resistant cells.

Source of Antigen and Antibodies

Antigen	Purified Recombinant His-tagged Human ERCC1 protein
Ab Host/type	Balb/c mouse . Splenocytes were fused with Sp2/0 cells. Resulting clone (XPG11; IgG2b), selected for reactivity with ERCC1, was expanded into mice as ascites. Antibody has been purified by Protein A/G column chromatography
2-Ab	Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available)
-ve control IgG	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

Form & Storage

Affinity pure IgG

100 ug/100ul 50 ug/50 ul

solution lyophilized powder

Buffer: 100 mM Tris, pH 7.5, 0.2% BSA 0.05% sodium azide

Reconstitute powder PBS at 1 mg/ml

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

Western Blotting: An initial concn. of 1-5 ug/ml is recommended for Western. Users must optimize antibody dilution depending upon the nature of samples and other technical conditions. The antibody recognizes >33-36 kDa in HeLa and A431 cells.

Histochemistry & Immunofluorescence: Not tested. An initial concn. 2-20 ug/ml is recommended for IHC.

Immunoprecipitation: 5-10 ug/ml of protein lysate:

Specificity & Cross-reactivity

ERCC11-M recognizes human ERCC1. Antibody cross-reactivity in various species has not been studied.

General References:

Miura M et al (1996) Exp. Cell res. 226, 126-132; Hayashi T et al (1998) Mut. Res. 407, 269-276; Delaat WI et al (1998) J. Biol. Chem. 273, 7835-7842; lee-Kwon W et al (1998) Biochem. J. 331, 591-597; Li Q et al (1999) Biochem. Pharmacol. 57, 347-353.

***This product is for In vitro research use only.**

Material Safety Data. Unless specified otherwise, the material contains negligible amounts of sodium azide (0.1%) as preservative. Appropriate care should be exercised when handling and disposing this material.

Related material available from ADI

Antibodies to MGMT, hNTH, Ape, mutY, OGG1, XRCC1, DNA Ligase, Polymerase, XPG, ORC1 etc are available.

Anti-Rabbit IgG-HRP Conjugate and ECL Reagents

Western Blot Recycling Kit (Strips blots in 5 minutes) and re-use the same blot with multiple antibodies

ERCC11-M

71205A

Alpha Diagnostic Intl Inc., 6203 Woodlake Center Dr, S an Antonio, T X 7 8 24 4 , U S A;

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400 Fax: +91-11-42208444 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com