SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-ERCC1 antibody

Catalog Number: SLM-60230R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	A12C8
Target:	ERCC1
Purification:	Affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P (1:200-800) IHC-F (1:200-800) IF (1:200-800) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human, Mouse, Rat
Subcellular Location:	The nucleus
Background:	The product of this gene functions in the nucleotide excision repair pathway, and is required for the repair of DNA lesions such as those induced by UV light or formed by electrophilic compounds including cisplatin. The encoded protein forms a heterodimer with the XPF endonuclease (also known as ERCC4), and the heterodimeric endonuclease catalyzes the 5' incision in the process of excising the DNA lesion. The heterodimeric endonuclease is also involved in recombinational DNA repair and in the repair of inter-strand crosslinks. Mutations in this gene result in cerebrooculofacioskeletal syndrome, and polymorphisms that alter expression of this gene may play a role in carcinogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. The last exon of this gene overlaps with the CD3e molecule, epsilon associated protein gene on the opposite strand. [provided by RefSeq, Oct 2009]

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subunit: Heterodimer composed of ERCC1 and XPF/ERRC4. **Subcellular Location:** Nucleus. **Similarity:** Belongs to the ERCC1/RAD10/SWI10 family. **Database links:** **Entrez Gene:** 2067 Human **Entrez Gene:** 13870 Mouse **Entrez Gene:** 292673 Rat Omim: 126380 Human **SwissProt:** P07992 Human **SwissProt:** P07903 Mouse **Unigene:** 435981 Human **Unigene:** 280913 Mouse **Unigene:** 7320 Rat ERCC1 protein is one of the important members of the DNA repair gene family in animals. In humans, its low expression is often accompanied by increased genetic instability, thereby leading to the occurrence of malignant transformation of Tumour. ERCC1 is a highly conserved excinuclease in nucleotide excision repair of damaged DNA. In mammalian nucleotide excision repair, XPG is responsible for cleaving the 3' end of the DNA damage region, while the ERCC1-XPF complex opens the incision at the 5' end. Preliminary studies currently show that the lower the expression level of ERCC1 protein in cancer, the better the effect of cisplatin chemotherapy. In patients positive for ERCC1 protein, the prognosis of non-chemotherapy treatment is better than that of receiving chemotherapy.

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