SunLong Biotech Co.,LTD
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Mouse Anti-ERCC1 antibody

SLM-33084M

Product Name	ERCC1
Chinese Name	DNA 切除修复蛋白 1 单克隆抗体
Alias	Excision Repair Cross Complementing 1; DNA excision repair protein ERCC-1; COFS4; UV20; DNA excision repair protein ERCC1; ERCC 1; Excision Repair Cross Complementing Rodent Repair Deficiency Complementation Group 1; Excision repair protein; UV 20; UV20;DNA excision repair protein ERCC-1.
Research Area	Tumour immunology
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	3C11
React Species	Human,
Applications	WB=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	36kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human ERCC1 protein
Lsotype	IgG
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

Product Detail

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]

Subunit:
Heterodimer composed of ERCC1 and XPF/ERRC4.

Subcellular Location:
Nucleus.

Similarity:
Belongs to the ERCC1/RAD10/SWI10 family.

SWISS:
P07992

Gene ID:
2067

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

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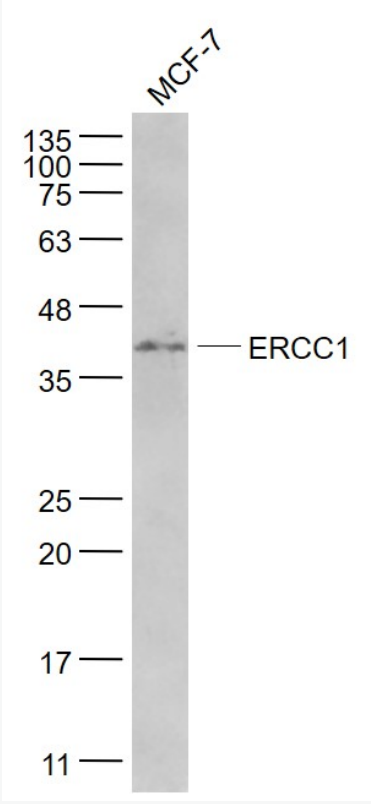
Unigene: 7320 Rat

ERCC1 蛋白是动物内重要的 DNA 修复基因家族成员之一。在人体内它的低表达往往伴随着基因不稳定性增加,从而产生 Tumour 恶性变的发生。ERCC1 是损伤 DNA 核苷酸切除修复中高度保守的切除性核酶。在哺乳动物的核苷酸切除修复中，XPG 负责切割 DNA 损伤区域的 3’端，而 ERCC1-XPF 复合物在 5’端打开切口。目前初步的研究表明，癌瘤中的 ERCC1 蛋白表达程度越低，顺氯氨铂化疗的效果就越好。ERCC1 蛋白阳性的患者，非化疗治疗的预后要好于接受化疗。

Product Picture



Sample:

MCF-7(Human) Cell Lysate at 30 ug

Primary: Anti- ERCC1 (SLM-33084M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

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Predicted band size: 36 kD

Observed band size: 37 kD