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**Product Name: ERCC1 Mouse Monoclonal Antibody****Catalog #: AMM82545**

For research use only.

**Summary**

<b>Description</b>	Mouse monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,ELISA,FC
<b>Reactivity</b>	Human, Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
<b>Molecular Weight</b>	32.5kDa

**Antigen Information**

<b>Gene Name</b>	ERCC1
<b>Alternative Names</b>	UV20; COFS4; RAD10
<b>Gene ID</b>	2067.0
<b>SwissProt ID</b>	P07992
<b>Immunogen</b>	Purified recombinant fragment of human ERCC1 (AA: 1-297) expressed in E. Coli.

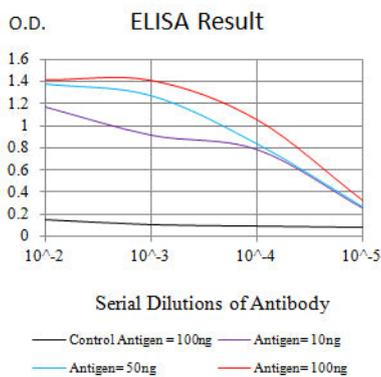
**Background**

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

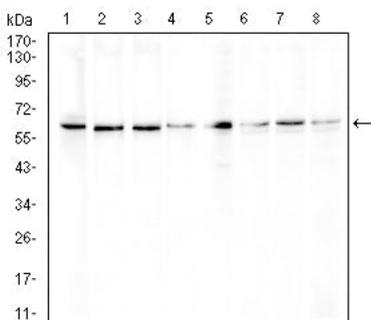
the process of excising the DNA lesion. The heterodimeric endonuclease is also involved in recombinational DNA repair and in the repair of inter-strand crosslinks. Mutations in this gene result in cerebrooculofacioskeletal syndrome, and polymorphisms that alter expression of this gene may play a role 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.

## Research Area

## Image Data

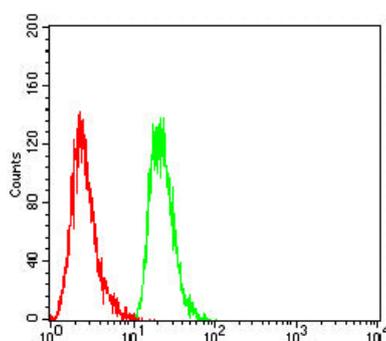


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

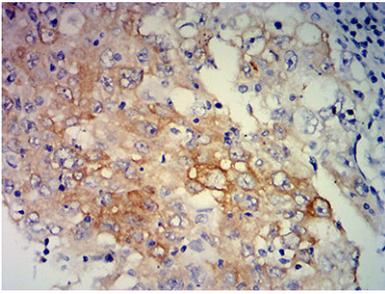


Western blot analysis using ERCC1 mouse mAb against NIH/3T3 (1), MCF-7 (2), HeLa (3), SK-Br-3 (4), HepG2 (5), Raji (6), PC-3 (7), and K562 (8) cell lysate.

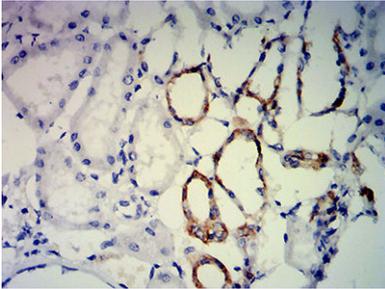
(Observed MW is about 62kDa, it is a hypothesis that this antibody detects ERCC1 protein dimers.)



Flow cytometric analysis of HeLa cells using ERCC1 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissues using ERCC1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human kidney tissues using ERCC1 mouse mAb with DAB staining.