

# ERCC1 Rabbit mAb

Catalog # AP75409

## Product Information

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<b>Application</b>	WB, IHC-P, FC
<b>Primary Accession</b>	<a href="#">P07992</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	32562

## Additional Information

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<b>Gene ID</b>	2067
<b>Other Names</b>	ERCC1
<b>Dilution</b>	WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:20-1:50
<b>Format</b>	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	ERCC1
<b>Function</b>	[Isoform 1]: Non-catalytic component of a structure-specific DNA repair endonuclease responsible for the 5'-incision during DNA repair. Responsible, in conjunction with SLX4, for the first step in the repair of interstrand cross-links (ICL). Participates in the processing of anaphase bridge-generating DNA structures, which consist in incompletely processed DNA lesions arising during S or G2 phase, and can result in cytokinesis failure. Also required for homology-directed repair (HDR) of DNA double-strand breaks, in conjunction with SLX4.
<b>Cellular Location</b>	[Isoform 1]: Nucleus [Isoform 3]: Nucleus

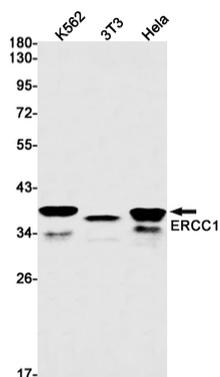
## Background

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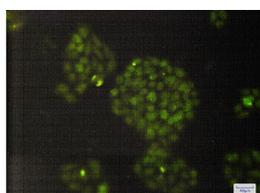
DNA repair systems operate in all living cells to manage a variety of DNA lesions. Nucleotide excision repair

(NER) is implemented in cases where bulky helix-distorting lesions occur, such as those brought about by UV and certain chemicals. Research studies have shown that expression of ERCC1 is related to survival rate and response to chemotherapeutic drugs in several human cancers including non-small cell lung cancer (NSCLC).

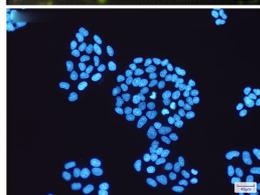
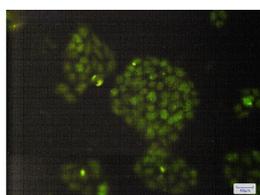
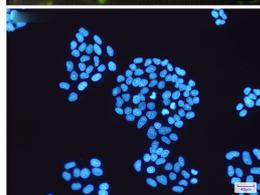
## Images



Western blot analysis of ERCC1 in K562, 3T3, HeLa lysates using ERCC1 antibody.



Immunocytochemistry analysis of ERCC1(green) in HeLa using ERCC1 antibody, and DAPI(blue)



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