

# Anti-ERCC1 Antibody

Catalog # AP51194

## Product Information

---

|                          |                                |
|--------------------------|--------------------------------|
| <b>Application</b>       | WB, IHC                        |
| <b>Primary Accession</b> | <a href="#">P07992</a>         |
| <b>Reactivity</b>        | Human, Mouse, Rat, Bovine, Dog |
| <b>Host</b>              | Rabbit                         |
| <b>Clonality</b>         | Polyclonal                     |
| <b>Calculated MW</b>     | 32562                          |

## Additional Information

---

|                           |                                                                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>            | 2067                                                                                                                                 |
| <b>Other Names</b>        | DNA excision repair protein ERCC-1                                                                                                   |
| <b>Target/Specificity</b> | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ERCC1. The exact sequence is proprietary. |
| <b>Dilution</b>           | WB~~WB (1/500 - 1/1000) IHC~~1:100~500                                                                                               |
| <b>Format</b>             | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                            |
| <b>Storage</b>            | Store at -20 °C.Stable for 12 months from date of receipt                                                                            |

## Protein Information

---

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## References

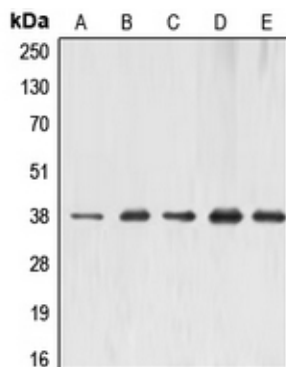
---

van Duin M.,et al.Cell 44:913-923(1986).

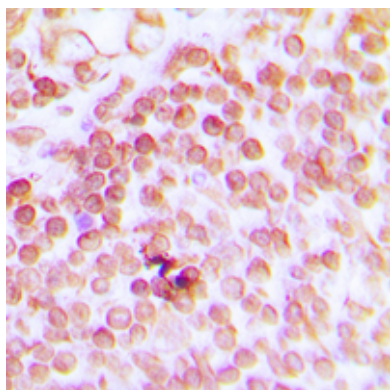
Hoeijmakers J.H.J.,et al.Cold Spring Harb. Symp. Quant. Biol. 51:91-101(1986).  
Yu J.J.,et al.Mutat. Res. 382:13-20(1997).  
Hisatomi H.,et al.Submitted (AUG-2001) to the EMBL/GenBank/DDBJ databases.  
Ota T.,et al.Nat. Genet. 36:40-45(2004).

## Images

---



Western blot analysis of ERCC1 expression in MCF7 (A), HeLa (B), A431 (C), mouse liver (D), rat kidney (E) whole cell lysates. (Predicted band size: 32 kD; Observed band size: 38 kD)



Immunohistochemical analysis of ERCC1 staining in human tonsil formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.