

**Goat Anti-ERCC1 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1377a

## Specification

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### Goat Anti-ERCC1 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">P07992</a>
Other Accession	<a href="#">NP_001974</a> , <a href="#">2067</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	32562

### Goat Anti-ERCC1 Antibody - Additional Information

**Gene ID** 2067

#### Other Names

DNA excision repair protein ERCC-1, ERCC1

#### Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Goat Anti-ERCC1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-ERCC1 Antibody - Protein Information

**Name** ERCC1

#### Function

[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.

## Cellular Location

[Isoform 1]: Nucleus [Isoform 3]: Nucleus

## Goat Anti-ERCC1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Goat Anti-ERCC1 Antibody - Images



AF1377a (0.3 µg/ml) staining of A431 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## Goat Anti-ERCC1 Antibody - 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.

## Goat Anti-ERCC1 Antibody - References

Polymorphic DNA repair and metabolic genes: a multigenic study on gastric cancer. Palli D, et al. *Mutagenesis*, 2010 Sep 3. PMID 20817763.

Detection of ERCC1 118 polymorphisms in non-small-cell lung cancer by an improved fluorescence polarization assay. Wenchao L, et al. *Diagn Mol Pathol*, 2010 Sep. PMID 20736746.

[Association between polymorphisms of ERCC1 and response in patients with advanced non-small

cell lung cancer receiving cisplatin-based chemotherapy] Wang J, et al. Zhongguo Fei Ai Za Zhi, 2010 Apr. PMID 20677561.

[The clinical significance of expression of ERCC1 and PkCalpha in non-small cell lung cancer] He L, et al. Zhongguo Fei Ai Za Zhi, 2010 Mar. PMID 20673527.

[The expression and prognostic significance of ERCC1 and GST-pi in lung cancer] Xu C, et al. Zhongguo Fei Ai Za Zhi, 2010 Mar. PMID 20673515.