Rabbit Polyclonal antibody to Human ERCC6.

**Product Overview**
Rabbit Polyclonal antibody to Human ERCC6.

**Antigen Description**
This gene encodes a DNA-binding protein that is important in transcription-coupled excision repair. The protein has ATP-stimulated ATPase activity; there are contradictory publications reporting presence or absence of helicase activity. The protein appears to interact with several transcription and excision repair proteins, and may promote complex formation at repair sites. Mutations in this gene result in Cockayne syndrome type B.

**Target**
ERCC6

**Immunogen**
Synthetic peptide derived from an internal region of Human CSB.

**Host**
Rabbit

**Isotype**
IgG

**Species**
Human

**Purification**
Immunogen affinity purified

**Applications**
IHC-P

**Sequence similarities**
Belongs to the SNF2/RAD54 helicase family. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.

**Cellular localization**
Nucleus.

**Domain**
A C-terminal ubiquitin-binding domain (UBD) is essential for transcription-coupled nucleotide excision repair to proceed.

**Post-translation modifications**
Phosphorylated upon DNA damage, probably by ATM or ATR. Ubiquitinated at the C-terminus. Ubiquitination by the CSA complex leads to ERCC6 proteasomal degradation in a UV-dependent manner.

**PACKAGING**

**Format**
Liquid

**Buffer**
pH: 7.40
Preservative: 0.02% Sodium azide
Constituents: PBS, 0.88% Sodium chloride, 50% Glycerol
Note: PBS (without Mg2+ and Ca2+)

**Storage**
Store at -20°C. Stable for 12 months at -20°C

**ANTIGEN GENE INFORMATION**

**Gene Name**
ERCC6 excision repair cross-complementing rodent repair deficiency, complementation group 6 [Homo sapiens]

**Official Symbol**
ERCC6
Synonyms
ERCC6; excision repair cross-complementing rodent repair deficiency, complementation group 6; CKN2; DNA excision repair protein ERCC-6; Cockayne syndrome B protein; CSB; RAD26; C130058G22Rik; CKN2; Cockayne syndrome B protein; CKN2; Cockayne syndrome group B protein; Cockayne syndrome protein CSB; COFS; COFS1; CS group B correcting; CSB; DNA excision repair protein ERCC 6; DNA excision repair protein ERCC-6; ERC6; ERCC6; ERCC6_HUMAN; Excision repair cross-complementing rodent repair deficiency, complementation group 6; OTTHUMP00000019581; Rad26; Rad26 homolog; Rad26 homolog; ATP-dependent helicase ERCC6; cockayne syndrome protein CSB; Cockayne syndrome group B protein; COFS; ARMD5; COFS1;

GeneID
2074

mRNA Refseq
NM_000124

Protein Refseq
NP_000115

MIM
609413

UniProt ID
Q03468

Chromosome Location
10q11

Pathway
DNA Repair, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem; Formation of transcription-coupled NER (TC-NER) repair complex, organism-specific biosystem; Nucleotide Excision Repair, organism-specific biosystem; Nucleotide excision repair, organism-specific biosystem; Nucleotide excision repair, conserved biosystem; RNA Polymerase I Promoter Clearance, organism-specific biosystem;

Function
ATP binding; DNA binding; NOT DNA helicase activity; DNA-dependent ATPase activity; chromatin binding; hydrolase activity; nucleotide binding; protein C-terminus binding; protein N-terminus binding; protein binding; protein complex binding;

REFERENCES