

For Research Use Only

# ERCC8 Polyclonal antibody, PBS Only

Catalog Number:15921-1-PBS



## Basic Information

**Catalog Number:**

15921-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG8734

**GenBank Accession Number:**

BC009793

**GeneID (NCBI):**

1161

**UNIPROT ID:**

Q13216

**Full Name:**

excision repair cross-complementing rodent repair deficiency, complementation group 8

**Calculated MW:**

396 aa, 44 kDa

**Observed MW:**

42 kDa

**Purification Method:**

Antigen affinity purification

## Applications

**Tested Applications:**

WB, Indirect ELISA

**Species Specificity:**

human, mouse

## Background Information

ERCC8 (also known as Cockayne Syndrome A protein, CSA) is a critical nuclear protein that serves as a specific adapter component of the CRL4<sup>ERCC8</sup> ubiquitin ligase complex. Its primary function is to play a central role in the transcription-coupled nucleotide excision repair pathway, specifically recognizing and repairing the template strands of actively transcribed genes damaged by factors such as ultraviolet radiation. Mutations in the ERCC8 gene cause Cockayne syndrome, an autosomal recessive disorder characterized by severe photosensitivity, premature aging, neurodevelopmental abnormalities, and sensorineural hearing loss. This demonstrates that ERCC8 is essential for maintaining transcriptional fidelity, neuronal survival, and combating oxidative stress. Therefore, ERCC8 is not only a key factor in DNA repair but also an important molecule for studying mechanisms of premature aging and neurobiology.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS only, pH7.3

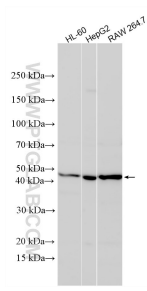
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15921-1-AP (ERCC8 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 15921-1-PBS in a different storage buffer formulation.