

CSA / ERCC8 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS13132**Specification**

CSA / ERCC8 Antibody - Product Information

Application	IF
Primary Accession	Q13216
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44kDa KDa

CSA / ERCC8 Antibody - Additional Information**Gene ID** 1161**Other Names**

DNA excision repair protein ERCC-8, Cockayne syndrome WD repeat protein CSA, ERCC8, CKN1, CSA

Target/Specificity

Human ERCC8.

Reconstitution & Storage

Aliquot and store at -20°C. Minimize freezing and thawing.

Precautions

CSA / ERCC8 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CSA / ERCC8 Antibody - Protein Information**Name** ERCC8**Synonyms** CKN1, CSA**Function**

Substrate-recognition component of the CSA complex, a DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex, involved in transcription-coupled nucleotide excision repair. The CSA complex (DCX(ERCC8) complex) promotes the ubiquitination and subsequent proteasomal degradation of ERCC6 in a UV-dependent manner; ERCC6 degradation is essential for the recovery of RNA synthesis after transcription-coupled repair. It is required for the recruitment of XAB2, HMGN1 and TCEA1/TFIIS to a transcription-coupled repair complex which removes RNA polymerase II-blocking lesions from the transcribed strand of active genes. Plays a role in DNA single-strand and double-strand breaks (DSSBs) repair; involved in repair of DSSBs by non-homologous end joining (NHEJ) (PubMed:29545921).

Cellular Location

Nucleus. Nucleus matrix. Note=UV-induced translocation to the nuclear matrix is dependent on ERCC6.

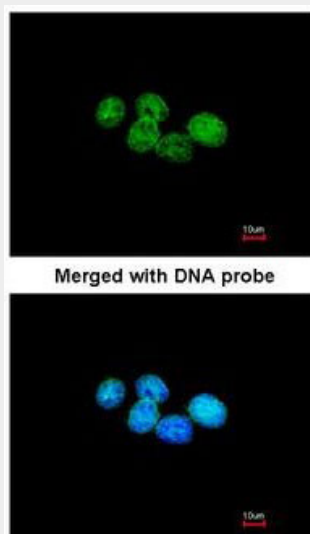
Volume

50 μ l

CSA / ERCC8 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](#)

CSA / ERCC8 Antibody - Images

Immunofluorescence of paraformaldehyde-fixed A431, using ERCC8(CSA) antibody at 1:200 dilution.

CSA / ERCC8 Antibody - Background

Substrate-recognition component of the CSA complex, a DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complex, involved in transcription-coupled nucleotide excision repair. The CSA complex (DCX(ERCC8) complex) promotes the ubiquitination and subsequent proteasomal degradation of ERCC6 in a UV-dependent manner; ERCC6 degradation is essential for the recovery of RNA synthesis after transcription-coupled repair. It is required for the recruitment of XAB2, HMG1 and TCEA1/TFIIIS to a transcription-coupled repair complex which removes RNA polymerase II-blocking lesions from the transcribed strand of active genes.

CSA / ERCC8 Antibody - References

Henning K.A.,et al.Cell 82:555-564(1995).

Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.

Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).

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