

ARG58586 anti-ERCC6 / CSB antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ERCC6 / CSB
Tested Reactivity	Hu, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ERCC6 / CSB
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 160-205 of Human ERCC6 / CSB. (QAATSRDINRKLDSVKRQKYNKEQQLKKITAKQKHLQAILGGAEVK).
Conjugation	Un-conjugated
Alternate Names	RAD26; Cockayne syndrome protein CSB; ARMD5; COFS; EC 3.6.4.-; CKN2; CSB; UVSS1; COFS1; ATP-dependent helicase ERCC6; DNA excision repair protein ERCC-6

Application Instructions

Application table	Application	Dilution
	WB	0.1 - 0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

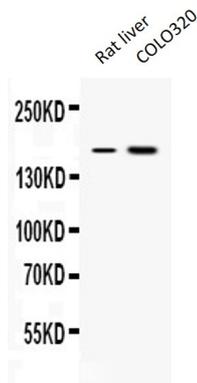
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ERCC6
Gene Full Name	excision repair cross-complementation group 6
Background	This gene encodes a DNA-binding protein that is important in transcription-coupled excision repair. The encoded protein has ATP-stimulated ATPase activity, interacts with several transcription and excision repair proteins, and may promote complex formation at DNA repair sites. Mutations in this gene are associated with Cockayne syndrome type B and cerebrooculofacioskeletal syndrome 1. Naturally-occurring readthrough transcription occurs between this gene and the adjacent PGBD3 gene (GeneID:267004), and results in a fusion protein that shares sequence with the product of each individual gene. The readthrough locus is represented by GeneID:101243544. [provided by RefSeq, Mar 2013]
Function	Essential factor involved in transcription-coupled nucleotide excision repair which allows RNA polymerase II-blocking lesions to be rapidly removed from the transcribed strand of active genes. Upon DNA-binding, it locally modifies DNA conformation by wrapping the DNA around itself, thereby modifying the interface between stalled RNA polymerase II and DNA. It is required for transcription-coupled repair complex formation. It recruits the CSA complex (DCX(ERCC8) complex), nucleotide excision repair proteins and EP300 to the at sites of RNA polymerase II-blocking lesions. [UniProt]
Calculated Mw	168 kDa
PTM	Ubiquitinated at the C-terminus. Ubiquitination by the CSA complex leads to ERCC6 proteasomal degradation in a UV-dependent manner. Stabilized following interaction with KIAA1530/UVSSA, which promotes recruitment of deubiquitinating enzyme USP7, leading to deubiquitination of ERCC6 thereby preventing UV-induced degradation of ERCC6 by the proteasome. [UniProt]
Cellular Localization	Nucleus. [UniProt]

Images



ARG58586 anti-ERCC6 / CSB antibody WB image

Western blot: Rat liver extract and COLO320 whole cell lysate stained with ARG58586 anti-ERCC6 / CSB antibody at 0.5 μ g/ml dilution.