

ERCC1 Rabbit mAb

Catalog No: #49432



Package Size: #49432-1 50ul #49432-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

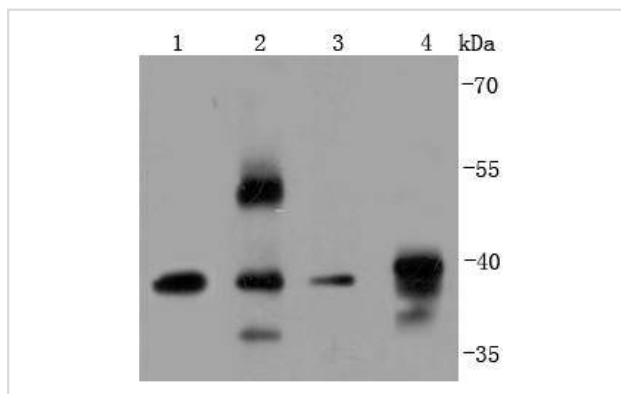
Description

Product Name	ERCC1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JM10-07
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC
Species Reactivity	Hu, Ms
Immunogen Description	recombinant protein
Other Names	COFS 4 antibody COFS4 antibody DNA excision repair protein ERCC 1 antibody DNA excision repair protein ERCC-1 antibody DNA excision repair protein ERCC1 antibody ERCC 1 antibody ERCC1 antibody ERCC1_HUMAN antibody Excision repair cross complementation group 1 antibody Excision repair cross complementing 1 antibody Excision Repair Cross Complementing Rodent Repair Deficiency Complementation Group 1 antibody Excision repair protein antibody RAD 10 antibody RAD10 antibody UV 20 antibody UV20 antibody
Accession No.	Swiss-Prot#:P07992
Calculated MW	36 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

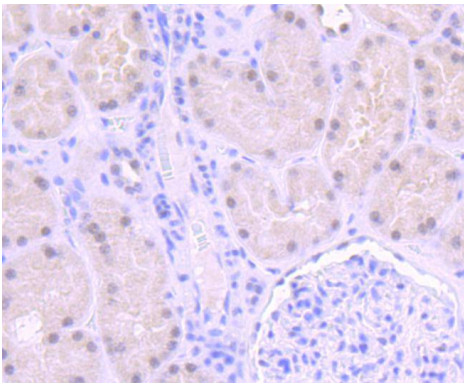
Application Details

WB: 1:1,000 IHC: 1:50-1:100 ICC: 1:50

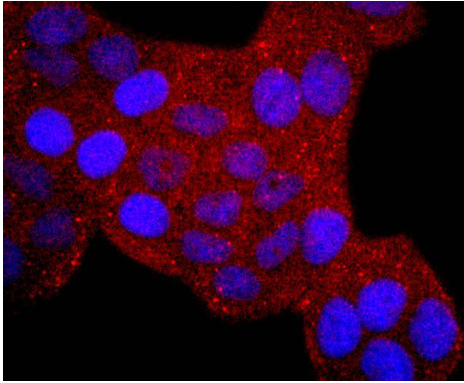
Images



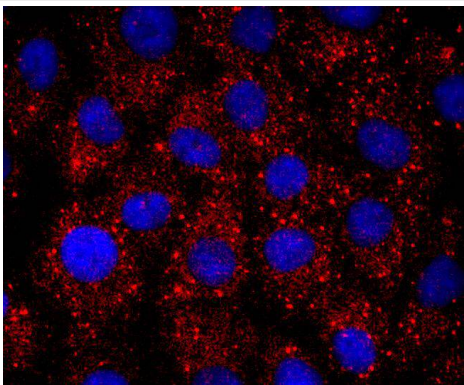
Western blot analysis of ERCC1 on different lysates using anti-ERCC1 antibody at 1/1,000 dilution. Positive control:
 Lane 1: Hela Lane 2: Human lung Lane 3: 293T Lane 4: A549



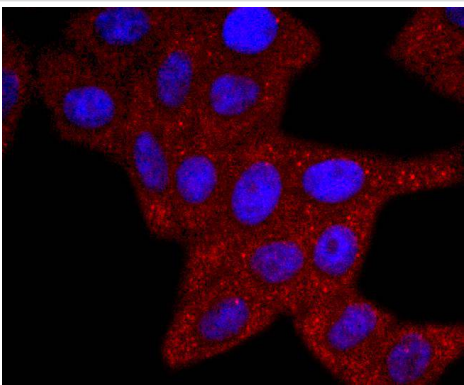
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-ERCC1 antibody. Counter stained with hematoxylin.



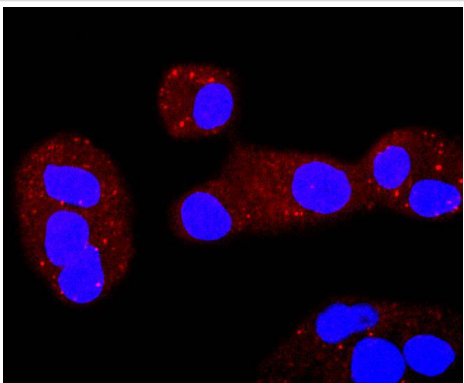
ICC staining ERCC1 in HeLa cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



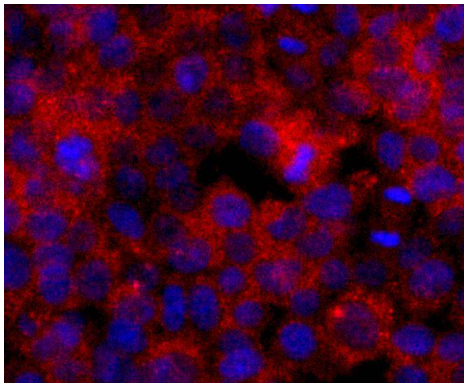
ICC staining ERCC1 in A549 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining ERCC1 in HepG2 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining ERCC1 in PANC-1 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining ERCC1 in 293T cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

Xeroderma pigmentosum (XP) is an autosomal recessive disorder characterized by a genetic predisposition to sunlight-induced skin cancer; it is commonly due to deficiencies in DNA repair enzymes. The most frequent mutations are found in the XP genes from group A through G and group V, which encode for nucleotide excision repair proteins. XPF, which is also designated ERCC4 or ERCC11, associates directly with the excision repair cross-complementing 1 (ERCC1) factor. ERCC-1, a functional homolog of Rad10 in *S. cerevisiae*, is a component of a structure-specific endonuclease that is responsible for 5' incisions during DNA repair. The ERCC1-XPF endo-nuclease preferentially cleaves one strand of DNA between duplex and single-stranded regions near borders of the stem-loop structure and, thereby, contributes to the initial steps of the nucleotide excision repair process.

References

1. Millis SZ et al. Molecular Profiling of Refractory Adrenocortical Cancers and Predictive Biomarkers to Therapy. *Biomark Cancer* 7:69-76 (2015).
2. Muallem MZ et al. ERCC1 expression as a predictor of resistance to platinum-based chemotherapy in primary ovarian cancer. *Anticancer Res* 34:393-9 (2014).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.