

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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ERCC1 (h): 293T Lysate: sc-116554



The Power to Question

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. ERCC1, 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 endonuclease preferentially cleaves one strand of DNA between duplex and single-stranded regions near borders of the stemloop structure and, thereby, contributes to the initial steps of the nucleotide excision repair process.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ERCC1 (human) mapping to 19q13.32.

PRODUCT

ERCC1 (h): 293T Lysate represents a lysate of human ERCC1 transfected 293T cells and is provided as 100 μg protein in 200 μl SDS-PAGE buffer.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

ERCC1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive ERCC1 antibodies. Recommended use: 10-20 µl per lane.

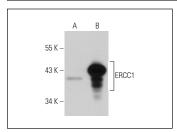
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

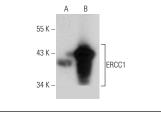
ERCC1 (3H11): sc-53281 is recommended as a positive control antibody for Western Blot analysis of enhanced human ERCC1 expression in ERCC1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA





ERCC1 (3H11): sc-53281. Western blot analysis of ERCC1 expression in non-transfected: sc-117752 (**A**) and human ERCC1 transfected: sc-116554 (**B**) 293T whole cell lysates.

ERCC1 (D-10): sc-17809. Western blot analysis of ERCC1 expression in non-transfected: sc-117752 (**A**) and human ERCC1 transfected: sc-116554 (**B**) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

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