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Product datasheet for TA501766M

ERCC1 Mouse Monoclonal Antibody [Clone ID: OTI3E1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3E1
Applications:	FC, WB
Recommended Dilution:	WB 1:2000, FLOW 1:100
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ERCC1 (NP_973730) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.47 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	32.4 kDa
Gene Name:	ERCC excision repair 1, endonuclease non-catalytic subunit
Database Link:	NP_001974 Entrez Gene 13870 MouseEntrez Gene 2067 Human P07992

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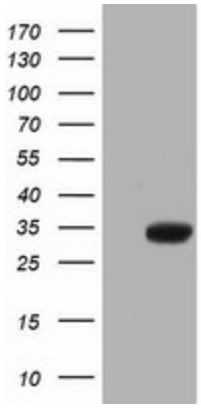
Background: The product of this gene functions in the nucleotide excision repair pathway, and is required for the repair of DNA lesions such as those induced by UV light or formed by electrophilic compounds including cisplatin. The encoded protein forms a heterodimer with the XPF endonuclease (also known as ERCC4), and the heterodimeric endonuclease catalyzes the 5' incision in the process of excising the DNA lesion. The heterodimeric endonuclease is also involved in recombinational DNA repair and in the repair of inter-strand crosslinks. Mutations in this gene result in cerebrooculofacioskeletal syndrome, and polymorphisms that alter expression of this gene may play a role in carcinogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. The last exon of this gene overlaps with the CD3e molecule, epsilon associated protein gene on the opposite strand. [provided by RefSeq]

Synonyms: COFS4; RAD10; UV20

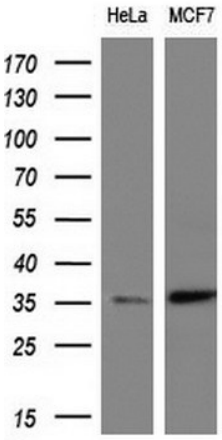
Protein Families: Druggable Genome

Protein Pathways: Nucleotide excision repair

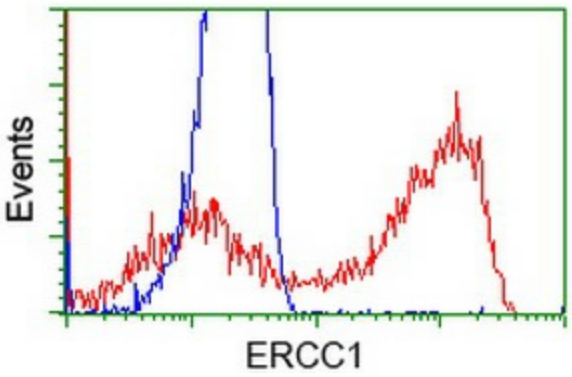
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ERCC1 ([RC200478], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ERCC1. Positive lysates [LY419605] (100ug) and [LC419605] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (10ug) from 2 different cell lines by using anti-ERCC1 monoclonal antibody (1:200).



HEK293T cells transfected with either [RC200478] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ERCC1 antibody ([TA501766]), and then analyzed by flow cytometry.