

# ERCC1 Monoclonal Antibody (3H11)

Product Details	
Size	500 µL
Species	Human
Published Species	Human
Expression System	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	3H11
Conjugate	Unconjugated
Immunogen	Full length recombinant human ERCC1 protein
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_10982462

Applications	Tested Dilution	Publications
Immunoprecipitation (IP)	2 µg/mL	-
Western Blot (WB)	1-3 µg/mL	7 Publications
Immunocytochemistry (ICC)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication

## Product Specific Information

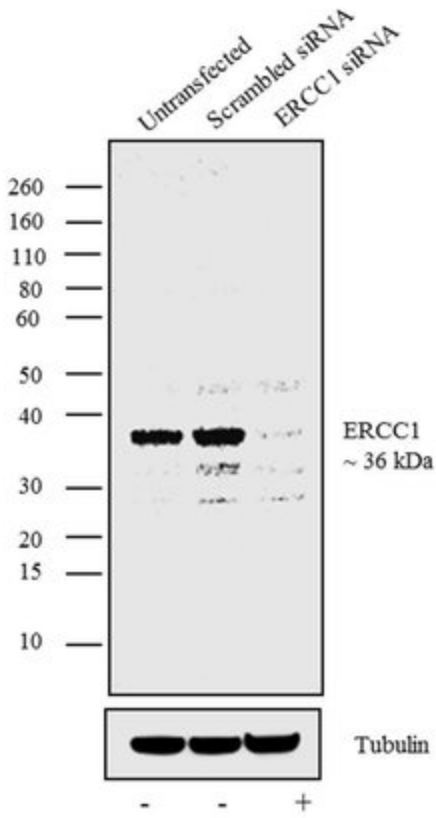
MA5-13830 targets ERCC1 in IP and WB applications and shows reactivity with Human samples.

The MA5-13830 immunogen is full length recombinant human ERCC1 protein.

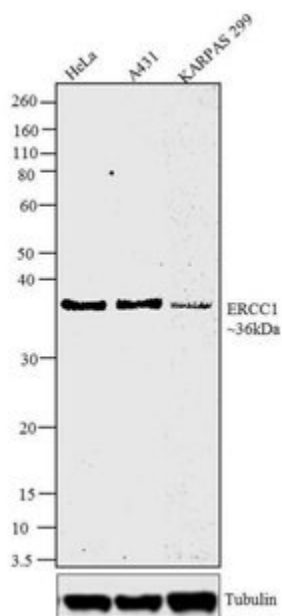
## Advanced Verification Data

### ERCC1 Antibody (MA5-13830)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with ERCC1 siRNA and decrease in signal intensity was observed in western blot application using Anti-ERCC1 Mouse Monoclonal Antibody (Product# MA513830). Knockdown validation info.



## Product Images For ERCC1 Monoclonal Antibody (3H11)

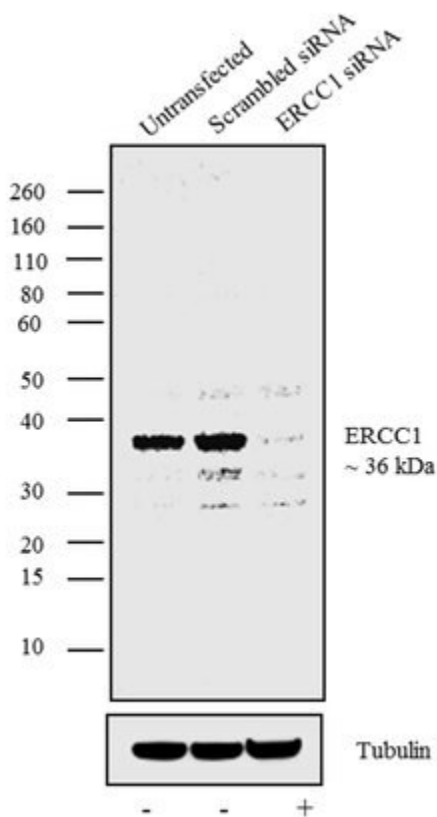


### ERCC1 Antibody (MA5-13830) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HeLa (Lane 1), A431 (Lane 2) and KARPAS 299 (lane 3). The blots were probed with Anti-ERCC1 Mouse Monoclonal Antibody (Product # MA5-13830, 1-3 µg/mL) and detected by chemiluminescence Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate (Product # 62-6520, 1:4000 dilution). A 36 kDa band corresponding to ERCC1 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

### ERCC1 Antibody (MA5-13830) in WB

Knockdown of ERCC1 was achieved by transfecting HeLa cells with ERCC1 specific siRNAs (Silencer® select Product # s4785 and s4786). Western blot analysis (Fig a) was performed using whole cell lysates from the ERCC1 knock down cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blots were probed with Anti-ERCC1 Mouse Monoclonal Antibody (Product # MA5-13830, 1-3 µg/mL) and Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate (Product # 62-6520, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig b). Loss of signal upon siRNA mediated knock down confirms that antibody is specific to ERCC1.



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## Western Blot (7)

Experimental and therapeutic medicine

### Effects of taxol resistance gene 1 expression on the chemosensitivity of SGC-7901 cells to oxaliplatin.

"MA5-13830 was used in western blot to characterize chemosensitivity of SGC-7901 cells to oxaliplatin and the effects of taxol resistance gene 1 expression"

Authors: Liu L,Bai Z,Ma X,Wang T,Yang Y,Zhang Z

**Species**  
Human  
Not Applicable

**Dilution**  
Not Cited  
1:500

**Year**  
2016

Cellular and molecular life sciences : CMLS

### Delayed c-Fos activation in human cells triggers XPF induction and an adaptive response to UVC-induced DNA damage and cytotoxicity.

"MA5-13830 was used in western blot to study the role of delayed c-Fos activation in the adaptive response to UVC-induced DNA damage and cytotoxicity"

Authors: Tomicic MT,Reischmann P,Rasenberger B,Meise R,Kaina B,Christmann M

**Species**  
Human

**Dilution**  
1:500-1:1,000

**Year**  
2011

[View more WB references on thermofisher.com](#)

## Immunocytochemistry (1)

Journal of signal transduction

### The Concept of Divergent Targeting through the Activation and Inhibition of Receptors as a Novel Chemotherapeutic Strategy: Signaling Responses to Strong DNA-Reactive Combinatorial Mimicries.

"MA5-13830 was used in immunocytochemistry and western blot to study the concept of divergent targeting through the activation and inhibition of receptors as a novel chemotherapeutic strategy"

Authors: Watt HL,Rachid Z,Jean-Claude BJ

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2012

## Immunohistochemistry (1)

Applied immunohistochemistry and molecular morphology : AIMM

### Development of an unsupervised pixel-based clustering algorithm for compartmentalization of immunohistochemical expression using Automated QUantitative Analysis.

"MA5-13830 was used in immunohistochemistry to evaluate a novel image processing algorithm for immunohistochemical analysis"

Authors: Gustavson MD,Bourke-Martin B,Reilly DM,Cregger M,Williams C,Tedeschi G,Pinard R,Christiansen J

**Species**  
Human

**Dilution**  
1:1000

**Year**  
2009

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