

Product Datasheet

ERCC1 Antibody (8F1) - BSA Free NB500-704

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB500-704

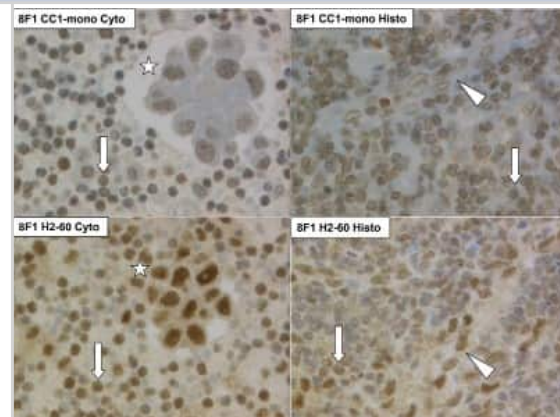
ERCC1 Antibody (8F1) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	8F1
Preservative	0.02% Sodium Azide
Isotype	IgG2b
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Mouse ERCC1 Antibody (8F1) - BSA Free (NB500-704) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-ERCC1 Antibody: Cited in 17 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	2067
Gene Symbol	ERCC1
Species	Human, Rat, Chinese Hamster
Reactivity Notes	Human, rat. Chinese Hamster reactivity reported in scientific literature (PMID: 17962301) Not yet tested in other species.
Immunogen	Full length recombinant human ERCC1. [UniProt# P07992]
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:100-1:200
Application Notes	IHC: In an ABC method, we suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation conditions and antibody dilutions should be determined by the user. Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0 prior to immunostaining. Antibody can be used in Immunocytochemistry/Immunofluorescence as reported in the literature (PMID: 21961533)Western Blot was reported in scientific literature.

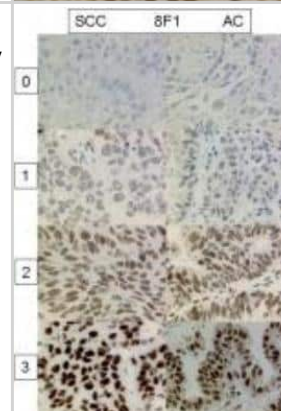


Images

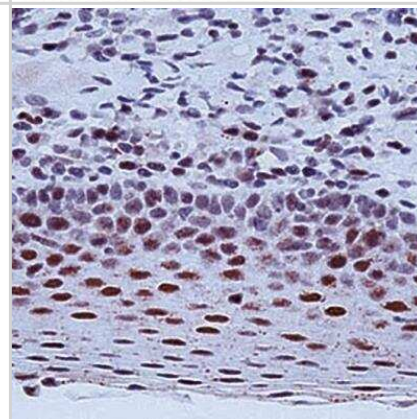
Immunohistochemistry-Paraffin: ERCC1 Antibody (8F1) [NB500-704] - Cyto-histologic comparison of anti-ERCC1 immunoreactivity using the protocol 8F1 CC1-mono (top) or 8F1 H2-60 (bottom). Left: Pleural effusion sediment of lung adenocarcinoma. Right: thoracic lymph node. Arrow: Lymphocyte. Arrowhead: Streak of endothelial cells. Asterisk: Tumor cell cluster. 400 A- original magnification. Image collected and cropped by Citeab from the following publication (Automated ERCC1 immunochemistry on hybrid cytology/tissue microarray of malignant effusions: evaluation of antibodies 8F1 and D-10. *J Clin Bioinforma* (2011) licensed under a CC-BY license.



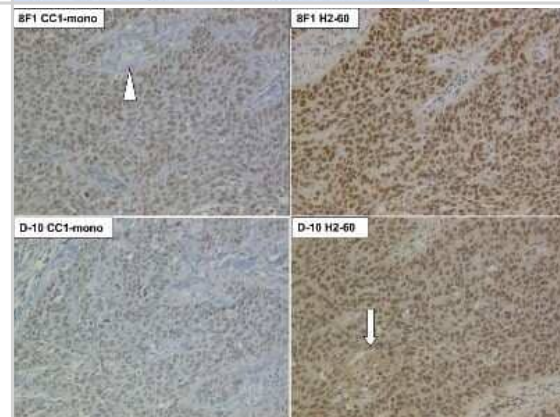
Immunohistochemistry-Paraffin: ERCC1 Antibody (8F1) [NB500-704] - Analysis of ERCC1 in human non-small cell lung cancer. Image courtesy of product review submitted by Alex Soltermann.



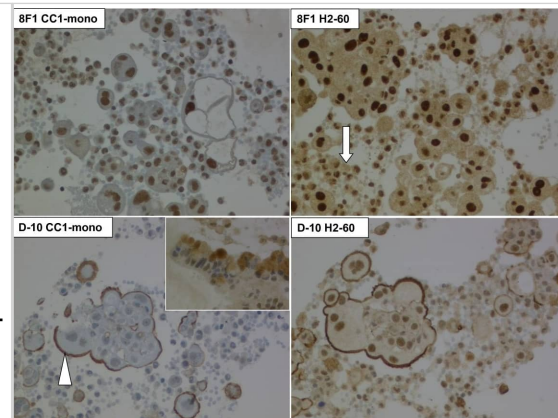
Immunohistochemistry-Paraffin: ERCC1 Antibody (8F1) [NB500-704] - Formalin fixed paraffin embedded human tonsil stained with ERCC1 antibody.



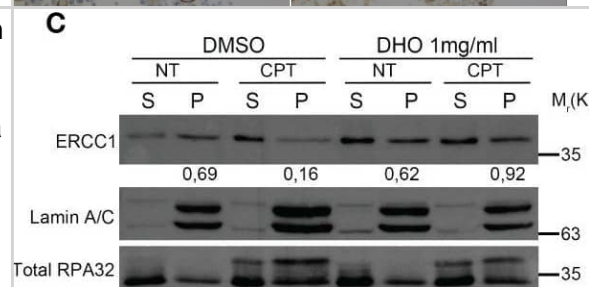
Immunohistochemistry-Paraffin: ERCC1 Antibody (8F1) [NB500-704] - Anti-ERCC1 immunohistochemistry on whole sections of a lung squamous cell carcinoma, using Mab 8F1 and D-10 with CC1-mono and H2-60 protocols. Note increased cytosolic background with H2-60. Arrow: Necrotic centre. Arrowhead: Stromal axis. 100 A- original magnification. Image collected and cropped by Citeab from the following publication (Automated ERCC1 immunochemistry on hybrid cytology/tissue microarray of malignant effusions: evaluation of antibodies 8F1 and D-10. *J Clin Bioinforma* (2011) licensed under a CC-BY license.



Immunohistochemistry: ERCC1 Antibody (8F1) - BSA Free [NB500-704] - Anti-ERCC1 immunocytochemistry on cell block core of malignant pleural mesothelioma, using Mab 8F1 & D-10 with CC1-mono & H2-60 protocols. Arrow: Surrounding non-tumoral cells, including lymphocytes, macrophages & neutrophil granulocytes. Arrowhead: Unspecific plasma membrane staining with D-10. 200 × original magnification. Inset lower left: Staining of intracellular mucin vacuoles of a mucinous adenocarcinoma of unknown origin. 400 × original magnification. Image collected & cropped by CiteAb from the following publication (<http://jclinbioinformatics.biomedcentral.com/articles/10.1186/2043-9113-1-25>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



DHO hydrophilic extract increases the Single Strand Annealing activity in response to CPT treatment (A) Chromatin enriched purification of HeLa cells pretreated or not with the DHO extract at 1 mg/ml followed by 1 μM CPT treatment for additional two hours. Cells were then lysed to obtain a soluble (S) and a chromatin-enriched (P, as pellet) fraction. Western blotting was performed to analyse the loading onto chromatin of the Poly (ADP-ribose) polymerase (PARP1) protein, involved in the cell response to DNA damage. Total RPA32 and Lamin A/C were used as controls of the supernatant or the chromatin-enriched fraction, respectively. (B) Chromatin enriched purification of HeLa cells performed as previously for the analysis of RAD52 chromatin loading. (C) Chromatin enriched purification of HeLa cells was performed as previously described followed by incubation with ERCC1 antibody. (D) HeLa hpRTSAGFP cells were transfected with the plasmid encoding the SclI restriction enzyme followed by incubation with 1 mg/ml of DHO extract or vehicle (DMSO) for 48 hours followed by FACS analysis measurement of GFP levels to calculate %SSA frequency compared with control cells which were set as 100%. Data represent the mean % ± SD. obtained from three independent experiments. Statistically significant differences are indicated with: ***significant (P < 0.001). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37409248>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Mazzarotti G, Cuomo M, Ragosta M et al. Oleanolic Acid Modulates DNA Damage Response to Camptothecin Increasing Cancer Cell Death. *International Journal of Molecular Sciences* 2025-01-08 [PMID: 39769237]

Barone D, Iannuzzi CA, Forte IM et al. The hydrophilic extract from a new tomato genotype (named DHO) kills cancer cell lines through the modulation of the DNA damage response induced by Camptothecin treatment *Frontiers in Oncology* 2023-06-20 [PMID: 37409248] (Western Blot, Human, Hamster - *Cricetulus* (Chinese Hamster))

PriYadarshini R, Hussain M, Attri P et al. BLM Potentiates c-Jun Degradation and Alters Its Function as an Oncogenic Transcription Factor. *Cell Rep.* 2018-07-24 [PMID: 30044990]

Bepler G, Zinner RG, Moon J et al. A phase 2 cooperative group adjuvant trial using a biomarker-based decision algorithm in patients with stage I non-small cell lung cancer (SWOG-0720, NCT00792701). *Cancer* 2014-04-18 [PMID: 24752945] (IHC-P, Human)

Al-Minawi AZ, Saleh-gohari N, Helleday T et al. The ERCC1/XPF endonuclease is required for efficient single-strand annealing and gene conversion in mammalian cells. *Nucleic Acids Res.* 2008-01-01 [PMID: 17962301] (WB, Chinese Hamster, Human)

Bhaqwat NR, Roginskaya VY, Acquafondata MB et al. Immunodetection of DNA repair endonuclease ERCC1-XPF in human tissue. *Cancer Res.* 2009-09-01 [PMID: 19723666] (IF/IHC, WB, Human)

Besse B, Massard C, Haddad V et al. ERCC1 influence on the incidence of brain metastases in patients with non-squamous NSCLC treated with adjuvant cisplatin-based chemotherapy. *Ann Oncol.* 2011-03-01 [PMID: 20801905] (IF/IHC, Human)

Lee S, Park YH, Kim KH et al. Thymidine synthase, thymidine phosphorylase, and excision repair cross-complementation group 1 expression as predictive markers of capecitabine plus cisplatin chemotherapy as first-line treatment for patients with advanced oesophageal squamous cell carcinoma. *Br J Cancer.* 2010-09-07 [PMID: 20700125] (IF/IHC, Human)

Shao YY, Kuo KT, Hu FC et al. Predictive and prognostic values of tau and ERCC1 in advanced breast cancer patients treated with paclitaxel and cisplatin. *Jpn J Clin Oncol.* 2010-04-01 [PMID: 20085902] (IF/IHC, Human)

Hwang IG, Ahn MJ, Park BB et al. ERCC1 expression as a prognostic marker in N2(+) nonsmall-cell lung cancer patients treated with platinum-based neoadjuvant concurrent chemoradiotherapy. *Cancer.* 2008-09-15 [PMID: 18623378] (IF/IHC, Human)

Jun HJ, Ahn MJ, Kim HS et al. ERCC1 expression as a predictive marker of squamous cell carcinoma of the head and neck treated with cisplatin-based concurrent chemoradiation. *Br J Cancer.* 2008-07-08 [PMID: 18594541] (IF/IHC, Human)

Kim MK, Cho KJ, Kwon GY et al. Patients with ERCC1-negative locally advanced esophageal cancers may benefit from preoperative chemoradiotherapy. *Clin Cancer Res.* 2008-07-01 [PMID: 18594004] (IF/IHC, Human)

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Products Related to NB500-704

NBL1-10318	ERCC1 Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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