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Anti-ERCC1 Antibody

Catalog # AP95818

Product Information

Application	WB, FC, IF/IC
Primary Accession	P07992
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	32562

Additional Information

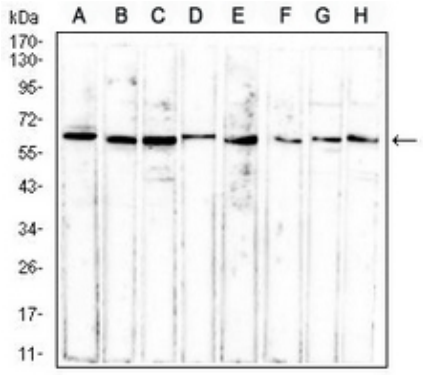
Gene ID	2067
Other Names	DNA excision repair protein ERCC-1
Target/Specificity	Recombinant fusion protein of human ERCC1 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

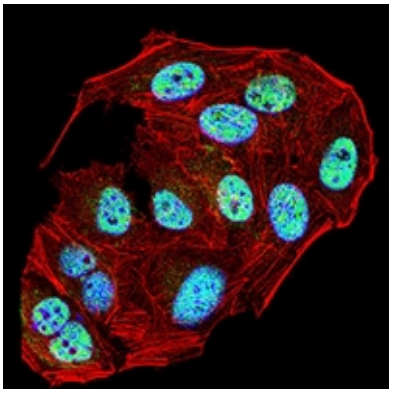
Name	ERCC1
Function	[Isoform 1]: Non-catalytic component of a structure-specific DNA repair endonuclease responsible for the 5'-incision during DNA repair. Responsible, in conjunction with SLX4, for the first step in the repair of interstrand cross-links (ICL). Participates in the processing of anaphase bridge-generating DNA structures, which consist in incompletely processed DNA lesions arising during S or G2 phase, and can result in cytokinesis failure. Also required for homology-directed repair (HDR) of DNA double-strand breaks, in conjunction with SLX4.
Cellular Location	[Isoform 1]: Nucleus [Isoform 3]: Nucleus

Images

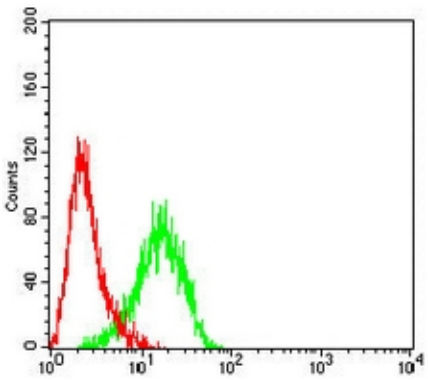
Western blot analysis of ERCC1 expression in NIH/3T3 (A), MCF7 (B), Hela (C), SKBr3 (D), HepG2 (E), Raji (F), PC3 (G),



A549 (H) whole cell lysates. (Predicted band size: 33 kD; Observed band size: 60 kD)



Immunofluorescent analysis of ERCC1 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of A549 cells using Anti-ERCC1 Antibody (green) and negative control (red).