

**Name: ERCC1 mouse monoclonal antibody, clone 2E12**

**Catalog: UM500011**

**Product Data Sheet - UltraMAB**

Gene Name: Homo sapiens excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence) (ERCC1), transcript variant 2  
GeneBank accession: NM\_001983  
Isotype: IgG2b

Reactivity: Human , Rat , Monkey  
Test application: WB  
Clone Name: Clone 2E12

**Gene Synonym:** COFS4; RAD10; UV20

**Validation Data:**

**Guaranteed Applications:** WB, IHC

**Western Blot**

**Suggested Dilutions:** WB 1:500~1000, IHC 1:150, IF 1:100, FLOW 1:100,

**Immunogen:** Full length human recombinant protein of human ERCC1 (NP\_973730) produced in HEK293T cell.

**Components:**

- ERCC1 mouse monoclonal antibody, clone 2E12 (UM500011)

**Amount:**

UM500011 100ul

**Concentration:** 0.5~1.0 mg/ml (Lot Dependent)

**Storage Condition:** Shipped at 4C. Upon delivery store at -20C. Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.

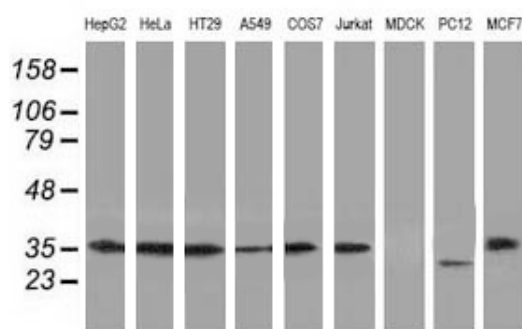
**Buffer:** PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

**Purification:**

Purified from mouse ascites fluids by affinity chromatography

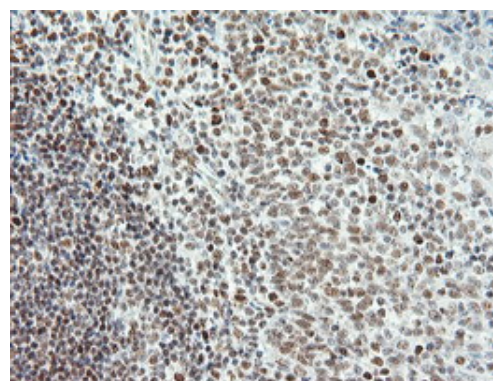
**Background:**

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].



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-ERCC1 monoclonal antibody (Clone 2E12).

**IHC data**



Immunohistochemical staining of paraffin-embedded Human tonsil using anti-ERCC1 mouse monoclonal antibody. (Clone 2E12, Dilution 1:100)

**Related Product:**

- TrueORF cDNA clones
- VERIFY Tagged Antigen lysates
- HuSH-29 shRNA
- Western Blot reagents
- Anti-myc/DDK tag antibodies

\* Peptide sequence of the DDK-tag (Flag®): N-DYKDDDDK-C Flag® is a registered trademark of Sigma-Aldrich

\* More validation images may be available on our website:

<http://www.origene.com/antibody/UM500011.aspx>

**This product is to be used for laboratory only. Not for diagnostic or therapeutic use.**