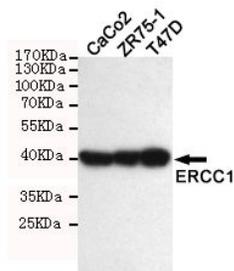




ERCC1

Mouse monoclonal Antibody

#53655

Catalog Number: 53655**Amount:** 100µg/100µl**Swiss-Prot No. :** P07992**Gene name:** ercc1**Gene id:** 2067**Clone Number:** 7F6-2A10-E8**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant human ERCC1 protein fragments expressed in E.coli**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of ERCC1 and does not cross-react with related proteins**Reactivity:** Human**Applications:** Predicted MW: 39kd WB: 1:1000

Western blot detection of ERCC1 in T47D, ZR75-1, CaCO2 and Molt-4 cell lysate using ERCC1 mouse mAb (1:1000 diluted). Predicted band size: 39KDa. Observed band size: 39KDa.

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.