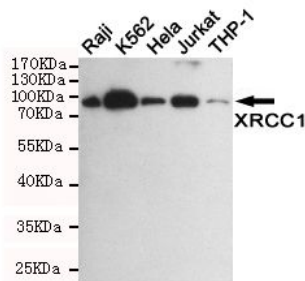


**XRCC1****Mouse monoclonal Antibody****#53656****Catalog Number:** 53656**Amount:** 100µg/100µl**Swiss-Prot No. :** P18887**Gene name:** xrcc1**Gene id:** 7515**Clone Number:** 3F6-G7-F7**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant human XRCC1 protein fragments expressed in E.coli**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of XRCC1 and does not cross-react with related proteins**Reactivity:** Human**Applications:** Predicted MW: 82kd WB: 1:1000

Western blot detection of XRCC1 in Raji, K562, HeLa, Jurkat and THP-1 cell lysates using XRCC1 mouse mAb (1:1000 diluted). Predicted band size: 82kDa. Observed band size: 82kDa.

Background:

The protein encoded by this gene is involved in the efficient repair of DNA single-strand breaks formed by exposure to ionizing radiation and alkylating agents. This protein interacts with DNA ligase III, polymerase beta and poly (ADP-ribose) polymerase to participate in the base excision repair pathway. It may play a role in DNA processing during meiosis and recombination in germ cells. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity.