



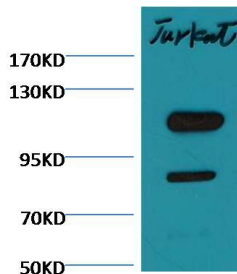
Cleaved PARP

Mouse monoclonal Antibody

#54061**Catalog Number:** 54061**Amount:** 100µg/100µl**Swiss-Prot No. :****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 PARP protein fragments expressed in E.coli**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of active PARP and does not cross-react with related proteins**Reactivity:** Human**Applications:**

Predicted MW: 86,116kd

WB:1:1000-5000



Western blot analysis of Jurkat with Cleaved PARP Mouse mAb diluted at 1:2,000.

Background:

Poly [ADP-ribose] polymerase 1 (PARP-1) also known as NAD⁺ ADP-ribosyltransferase 1 or poly[ADP-ribose] synthase 1 is an enzyme that in humans is encoded by the PARP1 gene. PARP1 has a role in repair of single-stranded DNA (ssDNA) breaks. Knocking down intracellular PARP1 levels with siRNA or inhibiting PARP1 activity with small molecules reduces repair of ssDNA breaks. In the absence of PARP1, when these breaks are encountered during DNA replication, the replication fork stalls, and double-strand DNA (dsDNA) breaks accumulate.