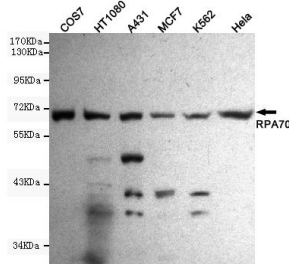




RPA70

Mouse monoclonal Antibody

#53341

Catalog Number: 53341**Amount:** 100µg/100µl**Swiss-Prot No. :** P27694**Gene name:** rpa70**Gene id:** 6117**Clone Number:** 8C3-D12-H10**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 RPA70 protein fragments expressed in E.coli**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of RPA70 and does not cross-react with related proteins**Reactivity:** Human, Mouse, Rat, Monkey**Applications:** Predicted MW: 70kd WB: 1:1000 ICC/IHC: 1:100

Western blot detection of RPA70 in HeLa, A431, MCF7, COS7, HT1080 and K562 cell lysates using RPA70 mouse mAb (1:1000 diluted). Predicted band size: 70KDa. Observed band size: 70KDa.

Background:

Plays an essential role in several cellular processes in DNA metabolism including replication, recombination and DNA repair. Binds and subsequently stabilizes single-stranded DNA intermediates and thus prevents complementary DNA from reannealing. Functions as component of the alternative replication protein A complex (aRPA). aRPA binds single-stranded DNA and probably plays a role in DNA repair; it does not support chromosomal DNA replication and cell cycle progression through S-phase. In vitro, aRPA cannot promote efficient priming by DNA polymerase alpha but supports DNA polymerase delta synthesis in the presence of PCNA and replication factor C (RFC), the dual incision/excision reaction of nucleotide excision repair and RAD51-dependent strand exchange.