

小鼠抗 RPA1 单克隆抗体

中文名称： 小鼠抗 RPA1 单克隆抗体

英文名称： Anti-RPA1 mouse monoclonal antibody

别名： replication protein A1; HSSB; RF-A; RP-A; REPA1; RPA70; MST075

相关类别： 一抗

储存： 冷冻（-20℃）

宿主： Mouse

抗原： RPA1

反应种属： Human, Monkey, Mouse, Rat

标记物： Unconjugate

克隆类型： Mouse Monoclonal

技术规格

Background:

As part of the heterotrimeric replication protein A complex (RPA/ RP-A), binds and stabilizes single-stranded DNA intermediates, that form during DNA replication or upon DNA stress. It prevents their reannealing and in parallel, recruits and activates different proteins and complexes involved in DNA metabolism (PubMed:27723720, PubMed:27723717). Thereby, it plays an essential role both in DNA replication and the cellular response to DNA damage (PubMed:9430682). In the cellular response to DNA damage, the RPA complex controls DNA repair and DNA damage checkpoint activation. Through recruitment of ATRIP activates the ATR kinase

	<p>a master regulator of the DNA damage response (PubMed:24332808). It is required for the recruitment of the DNA double-strand break repair factors RAD51 and RAD52 to chromatin in response to DNA damage (PubMed:17765923). Also recruits to sites of DNA damage proteins like XPA and XPG that are involved in nucleotide excision repair and is required for this mechanism of DNA repair (PubMed:7697716). Plays also a role in base excision repair (BER) probably through interaction with UNG (PubMed:9765279). Also recruits SMARCAL1/HARP, which is involved in replication fork restart, to sites of DNA damage. May also play a role in telomere maintenance (PubMed:17959650). As part of the alternative replication protein A complex, aRPA, binds single-stranded DNA and probably plays a role in DNA repair. Compared to the RPA2-containing, canonical RPA complex, may not support chromosomal DNA replication and cell cycle progression through S-phase. The aRPA may not promote efficient priming by DNA polymerase alpha but could support DNA synthesis by polymerase delta in presence of PCNA and replication factor C (RFC), the dual incision/excision reaction of nucleotide excision repair and RAD51-dependent strand exchange (PubMed:19996105).</p>
Applications:	WB, IF, IP
Name of antibody:	RPA1
Immunogen:	Fusion protein of human RPA1
Full name:	replication protein A1
Synonyms:	HSSB; RF-A; RP-A; REPA1; RPA70; MST075
SwissProt:	P27694
WB Predicted band size:	68 kDa
WB Positive control:	293T, 3T3, K562, HeLa and C6 cell lysates
WB Recommended dilution:	1000-5000
IF positive control:	HeLa cells
IF Recommend dilution:	50-100



