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Product datasheet for TA347042

RPA70 (RPA1) Mouse Monoclonal Antibody [Clone ID: 8C3-D12-H10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	8C3-D12-H10
Applications:	IF, IP, WB
Recommended Dilution:	WB: 1:1000, IF: 1:100
Reactivity:	Human, Monkey, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	The immunogen for RPA70 antibody: purified recombinant human RPA70 protein fragments expressed in E.coli.
Formulation:	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.02% sodium azide and 50% glycerol.
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	70 kDa
Gene Name:	replication protein A1
Database Link:	NP_002936 Entrez Gene 68275 MouseEntrez Gene 287524 RatEntrez Gene 6117 Human P27694

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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.
Synonyms:	HSSB; MST075; REPA1; RF-A; RP-A; RPA70
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	DNA replication, Homologous recombination, Mismatch repair, Nucleotide excision repair