

## Product datasheet for **TA347041**

### **RPA34 (RPA2) Mouse Monoclonal Antibody [Clone ID: 3E7-B5-F2]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	3E7-B5-F2
<b>Applications:</b>	IF, IP, WB
<b>Recommended Dilution:</b>	WB: 1:2000, IF: 1:200
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2b
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	The immunogen for RPA2 antibody: purified recombinant human RPA32/RPA2 protein fragments expressed in E.coli.
<b>Formulation:</b>	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.02% sodium azide and 50% glycerol.
<b>Purification:</b>	Affinity purified
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	32 kDa
<b>Gene Name:</b>	replication protein A2
<b>Database Link:</b>	<a href="#">NP_002937</a> <a href="#">Entrez Gene 6118 Human</a> <a href="#">P15927</a>



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<b>Background:</b>	Required for DNA recombination, repair and replication. The activity of RP-A is mediated by single-stranded DNA binding and protein interactions. Required for the efficient recruitment of the DNA double-strand break repair factor RAD51 to chromatin in response to DNA damage. 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.
<b>Synonyms:</b>	REPA2; RP-A p32; RP-A p34; RPA32
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Protein Pathways:</b>	DNA replication, Homologous recombination, Mismatch repair, Nucleotide excision repair