RPA2 monoclonal antibody

Catalog: MB66896 Host: Mouse Reactivity: Human

BackGround:

RPA70 is a component of a heterotrimeric complex, composed of 70, 32/30, and 14 kDa subunits, collectively known as RPA. RPA is a single-stranded DNA binding protein, whose DNA binding activity is believed to reside entirely in the 70 kDa subunit. The complex is required for almost all aspects of cellular DNA metabolism such as DNA replication,recombination, cell cycle and DNA damage checkpoints, and all major types of DNA repair including nucleotide excision, base excision, mismatch, and double-strand break repairs . In response to genotoxic stress in eukaryotic cells, RPA has been shown to associate with the Rad9/Rad1/Hus1checkpoint complex. RPA is hyperphosphorylated upon DNA damage or replication stress by checkpoint kinases including ataxia telangiectasia mutated ATM and Rad3-related , and DNA-dependent protein kinase . Phosphorylation of RPA32 occurs at serines 4, 8, and 33 . Hyperphosphorylation may alter RPA-DNA and RPA-protein interactions. In addition to the checkpoint partners, RPA interacts with a wide variety of protein partners, including proteins required for normal replication such as RCF, PCNA, and Pol α, and also proteins involved in SV40 replication, such as DNA polymerase I and SV40 large T antigen .

Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 30 kDa

Swiss-Prot:

P15927

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/1000 - 1/2000), IHC (1/50 - 1/200)

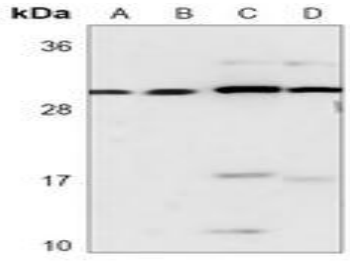
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

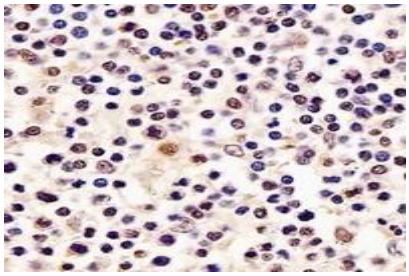
Specificity:

Recognizes endogenous levels of RPA2 protein.

DATA:



Western blot analysis of RPA2 expression in Hela (A), MCF7 (B), T47D (C), Ramos (D), 293T (E) whole cell lysates.



Immunohistochemical analysis of RPA2 staining in human tonsil formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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