

RPA32/RPA2 polyclonal antibody

Catalog: BS91178

Host: Rabbit

Reactivity: Human, Mouse, Rat

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. Thereby, it plays an essential role both in DNA replication and the cellular response to DNA damage. 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 a master regulator of the DNA damage response. It is required for the recruitment of the DNA double-strand break repair factors RAD51 and RAD52 to chromatin in response to DNA damage. 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. Plays also a role in base excision repair (BER) probably through interaction with UNG. Also recruits SMARCAL1/HARP, which is involved in replication fork restart, to sites of DNA damage. May also play a role in telomere maintenance.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

32 kDa

Swiss-Prot:

P15927 Human;Q62193 Mouse;Q63528 Rat

Purification&Purity:

Protein A purified.

Applications:

WB:1:500-1:2,000

IP:1:10-1:50

IHC:1:50-1:200

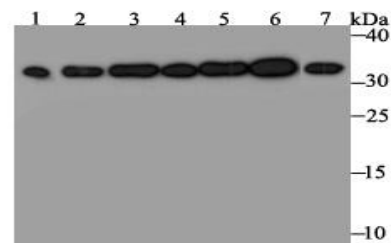
Storage&Stability:

Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

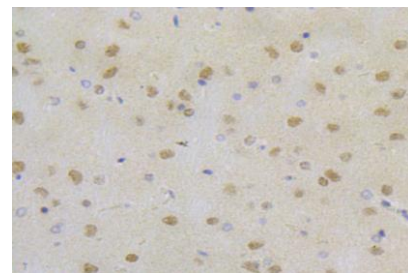
Specificity:

RPA32/RPA2 polyclonal antibody detects endogenous levels of RPA32/RPA2 protein.

DATA:



Western blot analysis of RPA32/RPA2 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody was used at a 1:500 dilution in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: Mouse testis tissue lysate Lane 2: A431 cell lysate Lane 3: SH-SY-5Y cell lysate Lane 4: SiHa cell lysate Lane 5: 293 cell lysate Lane 6: HeLa cell lysate Lane 7: HepG2 cell lysate



Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-RPA32/RPA2 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with ET7109-41 at 1/50 dilution, for 30 minutes at room temperature and de-

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PRODUCT DATA SHEET

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tected using an HRP conjugated compact polymer system. DAB was used as the chromogen. Counter stained with hematoxylin and mounted with DPX.

Note:

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

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