Anti-RAD1 Polyclonal Antibody

Cat: K110365P

Summary:

【**Product name**】: Anti-RAD1 antibody

【**Source**】: Rabbit

【**Isotype**】: IgG

【**Species reactivity**】: Human Mouse Rat

【**Swiss Prot**】: O60671

【**Gene ID**】: 5810

【**Calculated**】: MW:8/28/32kDa

【**Purification**】: Affinity purification

【**Tested applications**】: WB

【**Recommended dilution**】: IHC 1:100-300.

【**IHC Positive sample**】: Human breast cancer

【**Subcellular location**】: Nucleus

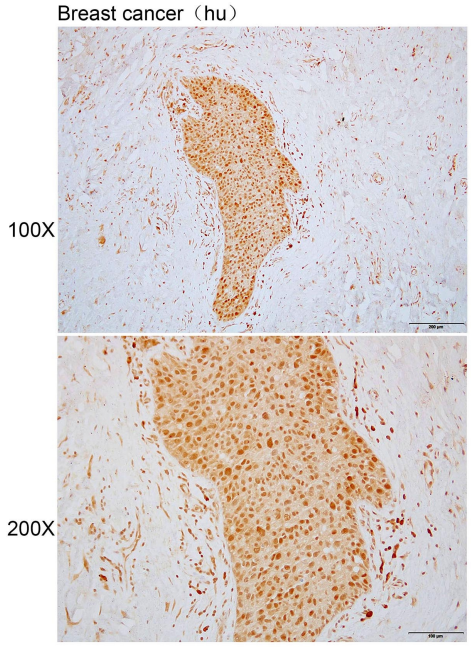
【**Immunogen**】: Recombinant protein of human RAD1

【**Storage**】: Shipped at 4°C. Upon delivery aliquot and store at -20°C

Background:

Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair. The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C (RFC) clamp loader complex. Acts then as a sliding clamp platform on DNA for several proteins involved in long-patch base excision repair (LP-BER). The 9-1-1 complex stimulates DNA polymerase beta (POLB) activity by increasing its affinity for the 3'-OH end of the primer-template and stabilizes POLB to those sites where LP-BER proceeds; endonuclease FEN1 cleavage activity on substrates with double, nick, or gap flaps of distinct sequences and lengths; and DNA ligase I (LIG1) on long-patch base excision repair substrates. The 9-1-1 complex is necessary for the recruitment of RHNO1 to sites of double-stranded breaks (DSB) occurring during the S phase. Isoform 1 possesses 3'->5' double stranded DNA exonuclease activity.

Verified picture



Immunohistochemistry of paraffin-embedded Human breast cancer using RAD1 antibody diluted at 1:100

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