

PKR (phospho-T451) polyclonal antibody

Catalog: BS4788

Host: Rabbit

Reactivity: Human, Mouse, Rat

Background:

An interferon-inducible, RNA-dependent protein serine/threonine kinase (PKR) has been described. PKR in earlier literature is variously known as DAI, dsJ, PI kinase, p65, p67 or TIK for the mouse kinase; and p68 or p69 for the human kinase. The PKR kinase substrate is the α subunit of protein synthesis initiation factor eIF-2. Phosphorylation of eIF-2 α on serine-51 results in inhibition of translation. Molecular cDNA clones have been isolated from both human and mouse cells. The serine/threonine kinase catalytic domains map to the carboxy terminal half of the protein while the RNA-binding domains are located in the amino terminal region. Three kinds of regulation of PKR enzymatic activity have been described.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

Predicted band size : 62 kDa
Observed band size : 68 kDa

Swiss-Prot:

P19525

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

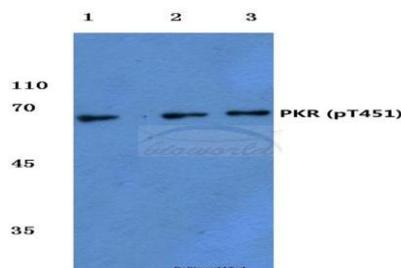
Storage&Stability:

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

Specificity:

p-PKR (T451) polyclonal antibody detects endogenous levels of PKR protein only when phosphorylated at Thr451.

DATA:

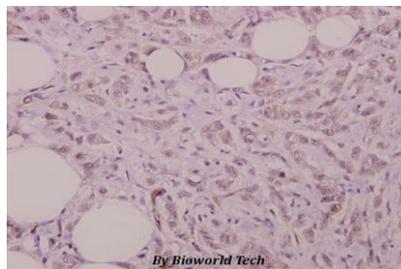


Western blot (WB) analysis of p-PKR (T451) polyclonal antibody at 1:500 dilution

Lane1:Hela cell lysate treated with PMA

Lane2:Raw264.7 cell lysate treated with H2O2

Lane3:NIH-3T3 cell lysate treated with LPS



Immunohistochemistry (IHC) analyzes of p-PKR (T451) pAb in paraffin-embedded human colorectal carcinoma tissue at 1:50.

Note:

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

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