

p40-phox (R149) polyclonal antibody

Catalog: BS1563

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Nicotinamide adenine dinucleotide phosphate (NADPH)-oxidase is a multimeric enzyme system that mediates electron transport from NADPH in the cytoplasm to molecular oxygen in the phagosome, thereby generating reactive oxidant intermediates. Upon neutrophil stimulation, NADPH-oxidase and other cytosolic elements localize to the cell membrane from the cytosol to form a complex which produces phagocytic oxygen radicals. There are a number of cytosolic proteins that are involved in NADPH-oxidase activation/deactivation, including p47-phox, p67-phox, p40-phox and the small GTP-binding protein, Rac. Activation of NADPH oxidase is accompanied by the phosphorylation of cytosolic components p40-phox, p47-phox and p67-phox. The PKC consensus phosphorylation sites Thr 154 and Ser 315 in p40-phox are phosphorylated during activation of NADPH oxidase. p40-phox can promote oxidase activation by increasing the affinity of p47-phox for NADPH-oxidase.

Product:

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

Molecular Weight:

~ 39 kDa

Swiss-Prot:

Q15080

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

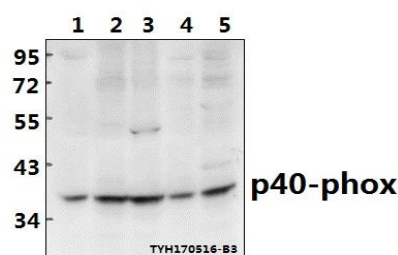
Storage&Stability:

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

Specificity:

p40 phox (R149) polyclonal antibody detects endogenous levels of p40 phox protein.

DATA:



Western blot (WB) analysis of p40-phox (R149) pAb at 1:500 dilution

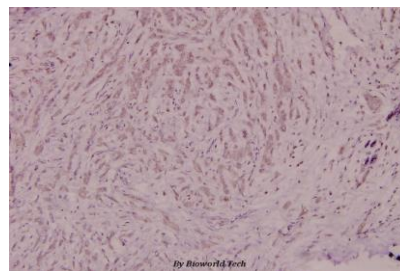
Lane1:THP-1 whole cell lysate(40ug)

Lane2:K562 whole cell lysate(40ug)

Lane3:C6 whole cell lysate(40ug)

Lane4:Jurkat whole cell lysate(40ug)

Lane5:BV2 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of p40-phox (R149) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

Note:

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

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