Vimentin (phospho-S56) polyclonal antibody

Catalog: BS4539 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

Phosphorylation of Vimentin induces disassembly of Vimentin intermediate filaments in vivo and in vitro. Binding of 14-3-3 depends on Vimentin phosphorylation and requires the phosphopeptide binding domain of 14-3-3, which is an amino terminal head domain consisting of amino acids 1-96. Phosphorylated Vimentin sequesters 14-3-3 and limits its availability to other target proteins, which can affect intracellular signaling processes that require 14-3-3. The amino-terminal domain of Vimentin is the target site for several protein kinases, including Rho kinase and PKC. Ser 38 and Ser 71 of Vimentin are the major sites of phosphorylation by Rho kinase. The disruption of subcellular compartmentalization of interphase cells leads to PKC-mediated phosphorylation of Vimentin. Thus, targeting of activated PKC, coupled with the reorganization of intracellular membranes, which contain phospholipids essential for activation, leads to the mitosis-specific phosphorylation of Vimentin.

Product:

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

Molecular Weight:

~ 40, 57 kDa

Swiss-Prot:

P08670

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

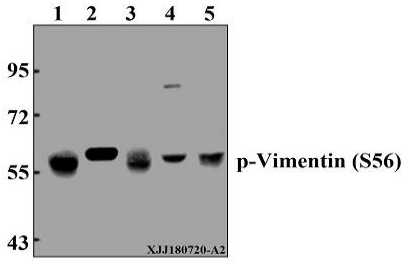
Storage&Stability:

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

Specificity:

p-Vimentin (S56) polyclonal antibody detects endogenous levels of Vimentin protein when phosphorylated at Ser56.

DATA:



Western blot (WB) analysis of p-Vimentin (S56) pAb at 1:500 dilution

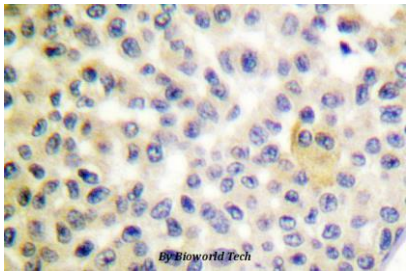
Lane1:MCF-7 whole cell lysate(40μg)

Lane2:A375 whole cell lysate(40μg)

Lane3:C6 whole cell lysate(40μg)

Lane4:The testis tissue lysate of Mouse(40μg)

Lane5:Hela whole cell lysate(40μg)



Note:

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

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