

Smad2 (Thr220) polyclonal antibody

Catalog: BCP01532

Host: Rabbit

Reactivity: Human,Rat,Mouse

BackGround:

Members of the Smad family of signal transduction molecules are components of a critical intracellular pathway that transmit TGF- β signals from the cell surface into the nucleus. Three distinct classes of Smads have been defined: the receptor-regulated Smads (R-Smads), which include Smad1, 2, 3, 5, and 8; the common-mediator Smad (co-Smad), Smad4; and the antagonistic or inhibitory Smads (I-Smads), Smad6 and 7. Activated type I receptors associate with specific R-Smads and phosphorylate them on a conserved carboxy-terminal SSXS motif. The phosphorylated R-Smad dissociates from the receptor and forms a heteromeric complex with the co-Smad (Smad4), allowing translocation of the complex to the nucleus. Once in the nucleus, Smads can target a variety of DNA binding proteins to regulate transcriptional responses.

Product:

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

Molecular Weight:

~ 53 kDa

Swiss-Prot:

Q15796

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: 1:1000~1:2000

Storage&Stability:

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

Specificity:

Smad2 (Thr220) polyclonal antibody detects endogenous levels of Smad2 protein.

DATA:



Western blot (WB) analysis of Smad2 polyclonal antibody at 1:2000 dilution

Lane1:BV2 whole cell lysate(40ug)

Lane2:PC12 whole cell lysate(40ug)

Lane3:HeLa whole cell lysate(50ug)

Lane4:A549 whole cell lysate(50ug)

Lane5:Jurkat whole cell lysate(40ug)

Note:

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