Stat3 polyclonal antibody

Catalog: BCP01575 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

Membrane receptor signaling by various ligands, including interferons and growth hormones such as EGF, induces activation of Jak kinases which then leads to tyrosine phosphorylation of the various Stat transcription factors. Stat1 and Stat2 are induced by IFN-α and form a heterodimer which is part of the ISGF3 transcription factor complex. Although early reports indicate Stat3 activation by EGF and IL-6, it has been shown that Stat3β appears to be activated by both while Stat3α is activated by EGF, but not by IL-6. Highest expresion of Stat4 is seen in testis and myeloid cells. IL-12 has been identified as an activator of Stat4. Stat5 has been shown to be activated by prolactin and by IL-3. Stat6 is involved in IL-4 activated signaling pathways.

Product:

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

Molecular Weight:

~ 80,89KDa

Swiss-Prot:

P40763

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

IP: 1:50~1:200

IF: 1:50~1:200

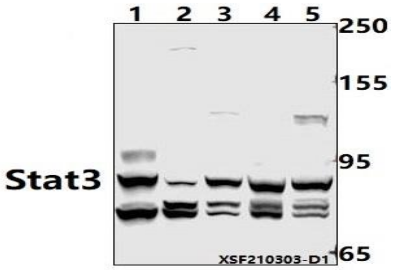
Storage&Stability:

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

Specificity:

STAT3 polyclonal antibody detects endogenous levels of STAT3 protein.

DATA:



Western blot (WB) analysis of Stat3 pAb at 1:1000 dilution

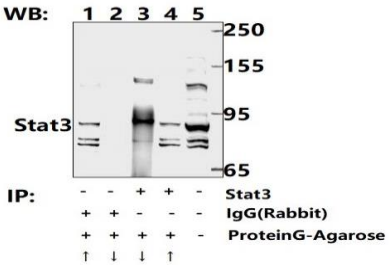
Lane1:H9C2 whole cell lysate(40ug)

Lane2:AML-12 whole cell lysate(40ug)

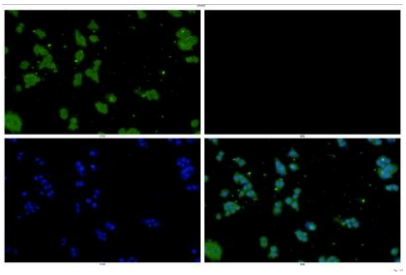
Lane3:MCF-7 whole cell lysate(40ug)

Lane4:THP-1 whole cell lysate(40ug)

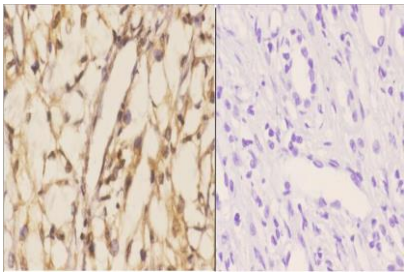
Lane5:HepG2 whole cell lysate(40ug)



Immunoprecipitation of MCF-7 cell lysates using Stat3 pAb (Sepharose Bead Conjugate)#BD0048 (lane 4 and lane 5) and Nonspecific IgG Control (Sepharose Bead Conjugate)#BD0048 (lane 2 and lane 3) .Lane 1 is 30% input. The western blot was probed using Stat3 pAb.



Immunofluorescence analysis of MCF-7 cells using Stat3 antibody at dilution of 1:50.



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

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