

Tyk 2 (120-255): sc-4285 WB

BACKGROUND

Members of the Janus family of tyrosine kinases, including JAK1, JAK2 and Tyk 2, in addition to their kinase domain, are characterized by the presence of a second kinase domain and the absence of SH2, SH3 and membrane spanning domains. There is increasing evidence indicating that members of this family of tyrosine kinases play a critical role in coupling ligand binding of cytokine receptors to tyrosine phosphorylation. For instance, Tyk 2 couples IFN α / β binding to tyrosine phosphorylation of the 113 kDa and 91/84 kDa proteins of the IFN-stimulated gene factor 3 complex. Similarly, JAK2 has been identified as a growth hormone receptor-associated protein kinase and has also been shown to be associated with the erythropoietin receptor and to be tyrosine phosphorylated and activated following erythropoietin stimulation.

REFERENCES

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SOURCE

Tyk 2 (120-255) is produced in *E. coli* as a 42 kDa tagged fusion protein corresponding to amino acids 120-255 mapping near the amino terminus of Tyk 2 of human origin.

PRODUCT

Tyk 2 (120-255) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 μ g protein in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

Tyk 2 (120-255) is suitable as a Western blotting control for sc-7205.

STORAGE

Store at 4° C, do not freeze; stable for one year from the date of shipment.

RESEARCH USE

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