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Datasheet for ABIN6239839

JAK2 Protein (AA 508-800) (His tag)

1 Image

Overview

Quantity:	50 µg
Target:	JAK2
Protein Characteristics:	AA 508-800
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This JAK2 protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 90 %
Biological Activity Comment:	JAK2 (Tyrosine-protein kinase JAK2) is a tyrosine kinase involved in various processes such as cell growth, development, differentiation or histone modifications. JAK2 is considered to associate with some type I receptors, including EPOR (Erythropoietin receptor), therefore participates in cellular signal transduction. Thus a binding ELISA assay was conducted to detect the interaction of recombinant human JAK2 and recombinant human EPOR. Briefly, JAK2 were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL JAK2 were then transferred to EPOR-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-JAK2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C.

Product Details

Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of JAK2 and EPOR was shown in Figure 1, and this effect was in a dose dependent manner. The binding activity of JAK2 with EPOR.

Target Details

Target:	JAK2
Abstract:	JAK2 Products
Background:	Alternative Names: JTK10, Tyrosine-protein kinase JAK2
Molecular Weight:	35kDa
UniProt:	O60674
Pathways:	JAK-STAT Signaling , RTK Signaling , Interferon-gamma Pathway , Positive Regulation of Peptide Hormone Secretion , Intracellular Steroid Hormone Receptor Signaling Pathway , Response to Growth Hormone Stimulus , Positive Regulation of Endopeptidase Activity , Protein targeting to Nucleus , CXCR4-mediated Signaling Events , Platelet-derived growth Factor Receptor Signaling , Unfolded Protein Response

Application Details

Application Notes:	Isoelectric Point: 6.7
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

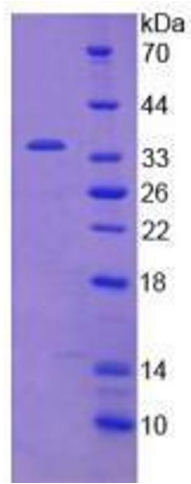


Image 1.