Human JAK2 protein, His tag

Cat. No. GTX00152-pro

Applications	Functional Assay
Species	Human

Package
10 µg

Applications

Application Note

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 100 µl JAK2 were then transferred to EPOR-coated microtiter wells and incubated for 2h at 37ºC. 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 37ºC. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of JAK2 and EPOR was in a dose dependent manner.

Observed MW (kDa)	35 kDa.

Properties

Form	Lyophilized powder
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, store at -20ºC or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	N-terminal His-Tag; Asn508~Ala800 (NP_001309123.1)
Expression System	E. coli
Purity	> 90%
Endotoxin	< 1 EU/µg
Conjugation	Unconjugated
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

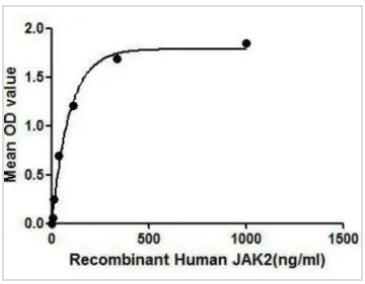
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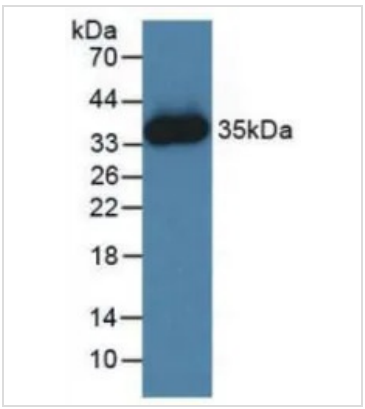
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DATA IMAGES



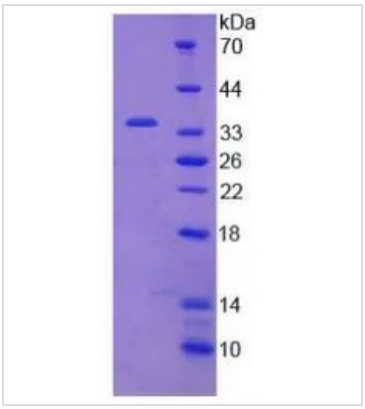
GTX00152-pro Functional Assay Image

Functional ELISA analysis of GTX00152-pro Human JAK2 protein which can bind immobilized EPOR protein.



GTX00152-pro Image

WB analysis of GTX00152-pro Human JAK2 protein.



GTX00152-pro Image

SDS-PAGE analysis of GTX00152-pro Human JAK2 protein.

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