

Janus Kinase 3 (JAK3) Active Protein | JAK3 active protein

Active Janus Kinase 3 (JAK3)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148213	E Coli	Human	Activity Assay, Cell Culture

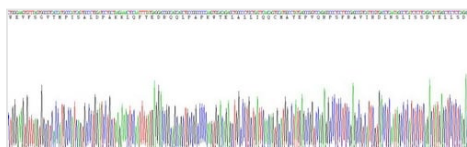
PRODUCT SYNONYMS

Janus Kinase 3 (JAK3); Active Janus Kinase 3 (JAK3); JAKL; L-JAK; LJAK; A Protein Tyrosine Kinase; Leukocyte; Leukocyte janus kinase; Tyrosine-protein kinase JAK3; JAK3 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 97%
Form/Format	Freeze-dried powder
Sequence Length	1124
Applicable Applications for JAK3 active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Trp716~Asp967
Isoelectric Point	8.5

IMAGES



Application Data

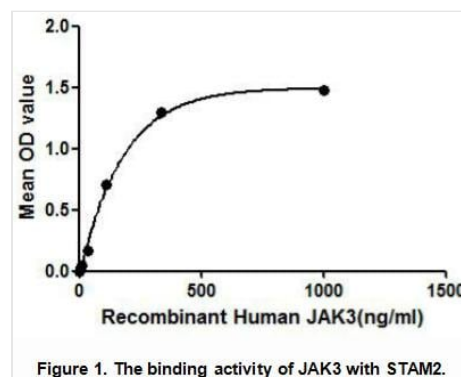
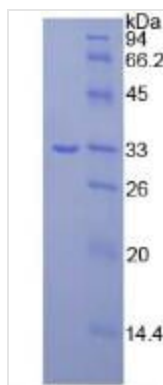


Figure 1. The binding activity of JAK3 with STAM2.

Application Data



SDS-PAGE

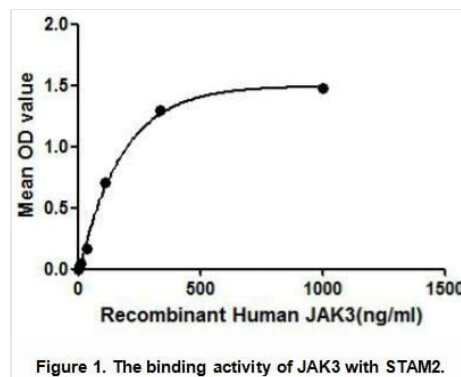


Figure 1. The binding activity of JAK3 with STAM2.

Activity

JAK3 (Tyrosine-protein kinase JAK3) is a non-receptor tyrosine kinase that involved in various processes such as cell growth, development, or differentiation. Besides, STAM2 has been identified as an interactor of JAK3, thus a binding ELISA assay was conducted to detect the interaction of recombinant human JAK3 and recombinant human STAM2. Briefly, JAK3 were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to STAM2-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-JAK3 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 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of JAK3 and STAM2 was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for JAK3 active protein	Enzyme & Kinase
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NCBI AND UNIPROT INFORMATION

NCBI GI #	47157315
NCBI GeneID	3718
NCBI Accession #	NP_000206.2
NCBI GenBank Nucleotide #	NM_000215.3
UniProt Accession #	P52333; Q13259; Q13260; Q13611; Q8N1E8; Q99699; Q9Y6S2
Molecular Weight	Predicted Molecular Weight: 32.3kDa Accurate Molecular Weight: 32kDa
NCBI Official Full Name	tyrosine-protein kinase JAK3
NCBI Official Synonym Full Names	Janus kinase 3
NCBI Official Symbol	JAK3
NCBI Official Synonym Symbols	JAKL; LJAK; JAK-3; L-JAK; JAK3_HUMAN
NCBI Protein Information	tyrosine-protein kinase JAK3
UniProt Protein Name	Tyrosine-protein kinase JAK3
UniProt Gene Name	JAK3
UniProt Synonym Gene Names	JAK-3; L-JAK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

