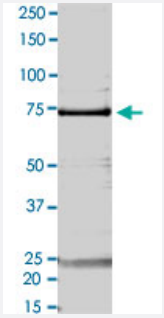
Bioactive

JAK2 (Human) Recombinant Protein

Catalog # P4708 Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human JAK2 (NM_004972.2, 717 a.a. - 1132 a.a.) partial recombinant protein with GST-His tag expressed in Sf9 cells.
Host	insect
Theoretical MW (kDa)	78.512
Form	Liquid
Preparation Method	Insect cell (Sf9) expression system
Purification	GST affinity chromatography
Concentration	0.091 ug/uL

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Activity	24 pmol/ug x min
Quality Control Testing	2 ug/lane SDS-PAGE Stained with Coomassie Blue
Storage Buffer	In 50 mM Hepes, 100 mM NaCl, pH 7.5. (5 mM DTT, 4 mM reduced glutathione, 20% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — JAK2

Entrez GeneID	3717
Protein Accession#	NM_004972.2
Gene Name	JAK2
Gene Alias	JTK10
Gene Description	Janus kinase 2 (a protein tyrosine kinase)
Omim ID	147796 187950 254450 263300 600880 601626
Gene Ontology	Hyperlink
Gene Summary	This gene product is a protein tyrosine kinase involved in a specific subset of cytokine receptor si gnaling pathways. It has been found to be constituitively associated with the prolactin receptor and is required for responses to gamma interferon. Mice that do not express an active protein for this gene exhibit embryonic lethality associated with the absence of definitive erythropoiesis. [provide d by RefSeq
Other Designations	Janus kinase 2|OTTHUMP00000021024|OTTHUMP00000043260|tyrosine-protein kinase JAK2

Pathway

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- Adipocytokine signaling pathway
- Chemokine signaling pathway
- Jak-STAT signaling pathway

Disease

- Acute Disease
- Anemia
- Arterial Occlusive Diseases
- Asthma
- Blast Crisis
- Breast cancer
- Breast Neoplasms
- Bronchiolitis
- Budd-Chiari Syndrome
- Carcinoma
- Cardiovascular Diseases
- Cell Transformation
- Chromosome Aberrations
- Chronic Disease
- Colitis
- Colorectal Neoplasms
- Crohn Disease
- Diabetes Mellitus
- Disease Progression
- DNA Damage

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- Down Syndrome
- Edema
- Fetal Death
- Fetal Growth Retardation
- Genetic Diseases
- Genetic Predisposition to Disease
- Genomic Instability
- Hematologic Neoplasms
- Hemorrhage
- Hepatic Vein Thrombosis
- Hepatitis B
- Hypertension
- Infant
- Inflammatory Bowel Diseases
- Insulin Resistance
- Iron Overload
- Leukemia
- Leukocytosis
- Lung Neoplasms
- Lymphoma
- Lymphoproliferative Disorders
- Mediastinal Neoplasms
- Multiple Sclerosis
- Myelodysplastic Syndromes
- Myelofibrosis
- Myeloproliferative Disorders

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- Myocardial Infarction
- Neoplasms
- Neovascularization
- Obesity
- Pancreatic cancer
- Pancreatic Neoplasms
- Philadelphia Chromosome
- Polycythemia
- Polycythemia Vera
- Pre-Eclampsia
- Pregnancy Complications
- Primary Myelofibrosis
- Pruritus
- Pulmonary Embolism
- Respiratory Syncytial Virus Infections
- Splenomegaly
- Spondylitis
- Stroke
- Thrombocythemia
- Thrombocytopenia
- Thrombocytosis
- Thromboembolism
- Thrombophilia
- Thrombosis
- Thyroid Neoplasms
- Tobacco Use Disorder

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- Translocation
- Trisomy
- Vascular Diseases
- Venous Thrombosis
- Viremia

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