



Mouse Monoclonal Antibody JAK2 conjugated to Sepharose Beads

CatalogNo: ANT8330-M

Size 200ul

Storage Store at 4 °C for frequent use

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

JAK2 (ANT0003R) Rabbit mAb

Formulation: Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg ANaN3.

Host Species Reactivity Applications

Rabbit
 Human, Mouse, Rat,
 WB, IHC, IF, IP, ELISA

MW Isotype
• 131kD (Calculated) • IgG,Kappa

131kD (Observed)

Recommended Dilution Ratios

IP

Basic Information

Clonality Monoclonal

Clone Number ANT0003R

Immunogen Information

Specificity Endogenous

Target Information

Gene name

JAK2

Protein Name

JAK2

Organism	Gene ID	UniProt ID
Human	<u>3717</u> ;	<u>060674</u> ;
Mouse	<u>16452</u> ;	<u>Q62120</u> ;
Rat	<u>24514</u> ;	<u>Q62689</u> ;

Cellular Localization Cytoplasm, Nucleus

Tissue specificity Ubiquitously expressed throughout most tissues.

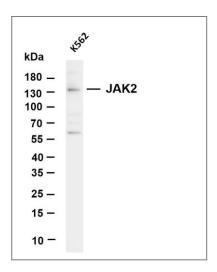
Function

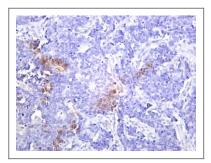
Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate., Disease: Chromosomal aberrations involving JAK2 are found in both chronic and acute forms of eosinophilic, lymphoblastic and myeloid leukemia. Translocation t(8;9)(p22;p24) with PCM1 links the protein kinase domain of JAK2 to the major portion of PCM1. Translocation t(9;12)(p24;p13) with ETV6., Disease: Defects in JAK2 are a cause of acute myelogenous leukemia (AML) [MIM:601626]. AML is a malignant disease in which hematopoietic precursors are arrested in an early stage of development., Disease: Defects in JAK2 are a cause of susceptibility to Budd-Chiari syndrome [MIM:600880]. Budd-Chiari syndrome is a spectrum of disease states, including anatomic abnormalities and hypercoagulable disorders, resulting in hepatic venous outflow occlusion. Clinical manifestations observed in the majority of patients include hepatomegaly, right upper quadrant pain, and abdominal ascites., Disease: Defects in JAK2 are associated with familial myelofibrosis [MIM:254450]. Myelofibrosis with myeloid metaplasia is a myeloproliferative disease with annual incidence of 0.5-1.5 cases per 100,000 individuals and age at diagnosis around 60 (an increased prevalence is noted in Ashkenazi Jews). Clinical manifestations depend on the type of blood cell affected and may include anemia, pallor, splenomegaly, hypermetabolic state, petechiae, ecchymosis, bleeding, lymphadenopathy, hepatomegaly, portal hypertension., Disease: Defects in JAK2 are associated with polycythemia vera (PV) [MIM:263300]. PV, the most common form of primary polycythemia, is caused by somatic mutation in a single hematopoietic stem cell leading to clonal hematopoiesis. PV is a myeloproliferative disorder characterized predominantly by erythroid hyperplasia, but also by myeloid leukocytosis, thrombocytosis, and splenomegaly. Familial cases of PV are very rare and usually manifest in elderly patients., Disease: Defects in JAK2 gene may be a cause of essential thrombocythemia (ET) [MIM:187950]. ET is characterized by elevated platelet levels due to sustained proliferation of megakaryocytes, and frequently lead to thrombotic and haemorrhagic complications., Domain: Possesses two phosphotransferase domains. The second one probably contains the catalytic domain (By similarity), while the presence of slight differences suggest a different role for domain 1., Function: Plays a role in leptin signaling and control of body weight (By similarity). Tyrosine kinase of the non-receptor type, involved in interleukin-3 and probably interleukin-23 signal transduction., ANTM: Leptin

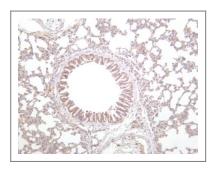
promotes phosphorylation on tyrosine residues, including phosphorylation on Tyr-813., similarity: Belongs to the protein kinase superfamily. Tyr protein kinase family., similarity: Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily., similarity: Contains 1 FERM

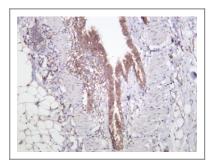
domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 SH2 domain.,subcellular location:Wholly intracellular, possibly membrane associated.,subunit:Interacts with SIRPA and SH2B1 (By similarity). Interacts with IL23R, SKB1 and STAM2.,tissue specificity:Expressed in blood, bone marrow and lymph node.,

Validation Data









Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-JAK2 (ANT0003R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: K562 Predicted band size: 131kDa Observed band size: 131kDa

	Human lung carcinoma was stained with anti-JAK2 (ANT0003R) rabbit antibody
Mouse lung was stained w	ith anti-JAK2 (ANT0003R) rabbit antibody
was stanica w	thi and JAK2 (ARTOOOSK) Tabbit and body
Rat lung was stained with a	anti-JAK2 (ANT0003R) rabbit antibody
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