

Jak2 (Phospho Tyr1008) Rabbit pAb

CatalogNo: YP1374

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, ELISA, IHC

MW

- 130kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-300

ELISA 1:2000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human Jak2 (Tyr1008)

Specificity This antibody detects endogenous levels of Human Mouse Jak2 (phospho-Tyr1008)

Target Information

Gene name JAK2

Protein Name Jak2 (Tyr1008)

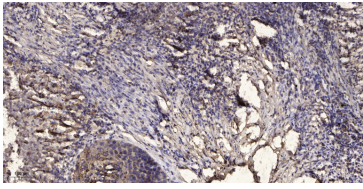
Organism	Gene ID	UniProt ID
Human	3717 ;	O60674 ;
Mouse	16452 ;	Q62120 ;
Rat	24514 ;	Q62689 ;

Cellular Localization Endomembrane system ; Peripheral membrane protein . 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. ,PTM: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



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH 9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

| Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:
Jak2 (Phospho Tyr1008) Rabbit pAb

For Research Use Only. Not for Use in Diagnostic Procedures.

[Antibody](#) | [ELISA Kits](#) | [Protein](#) | [Reagents](#)