

## JAK2 Polyclonal Antibody

<b>Catalog No :</b>	YT2426
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IF;WB;IHC;ELISA
<b>Target :</b>	JAK2
<b>Fields :</b>	>>EGFR tyrosine kinase inhibitor resistance;>>Chemokine signaling pathway;>>PI3K-Akt signaling pathway;>>Necroptosis;>>Signaling pathways regulating pluripotency of stem cells;>>JAK-STAT signaling pathway;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>Cholinergic synapse;>>Prolactin signaling pathway;>>Adipocytokine signaling pathway;>>AGE-RAGE signaling pathway in diabetic complications;>>Growth hormone synthesis, secretion and action;>>Leishmaniasis;>>Toxoplasmosis;>>Tuberculosis;>>Hepatitis B;>>Influenza A;>>Kaposi sarcoma-associated herpesvirus infection;>>Herpes simplex virus 1 infection;>>Pathways in cancer;>>Chemical carcinogenesis - receptor activation;>>PD-L1 expression and PD-1 checkpoint pathway in cancer;>>Lipid and atherosclerosis
<b>Gene Name :</b>	JAK2
<b>Protein Name :</b>	Tyrosine-protein kinase JAK2
<b>Human Gene Id :</b>	3717
<b>Human Swiss Prot No :</b>	O60674
<b>Mouse Gene Id :</b>	16452
<b>Mouse Swiss Prot No :</b>	Q62120
<b>Rat Gene Id :</b>	24514
<b>Rat Swiss Prot No :</b>	Q62689
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human JAK2. AA range:981-1030

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<b>Specificity :</b>	JAK2 Polyclonal Antibody detects endogenous levels of JAK2 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	IF 1:50-200 WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	130kD
<b>Cell Pathway :</b>	Chemokine;Jak_STAT;Adipocytokine;
<b>Background :</b>	This gene product is a protein tyrosine kinase involved in a specific subset of cytokine receptor signaling pathways. It has been found to be constitutively 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. [provided by RefSeq, Jul 2008],
<b>Function :</b>	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 incl
<b>Subcellular Location :</b>	Endomembrane system ; Peripheral membrane protein . Cytoplasm . Nucleus .
<b>Expression :</b>	Ubiquitously expressed throughout most tissues.
<b>Tag :</b>	orthogonal,hot

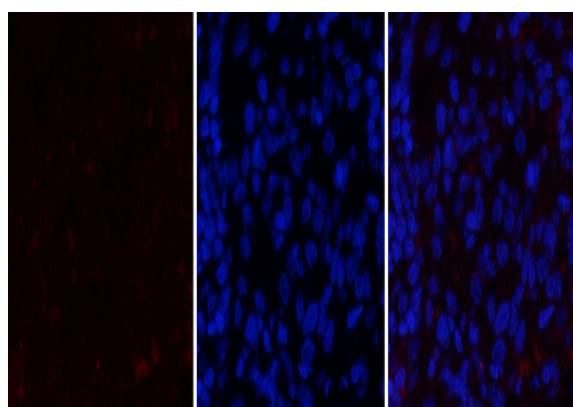
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<b>Sort :</b>	1
<b>No3 :</b>	ab108596
<b>No4 :</b>	1
<b>Host :</b>	Rabbit
<b>Modifications :</b>	Unmodified

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## Products Images

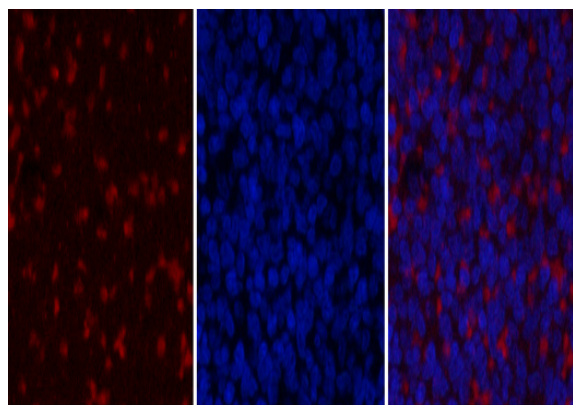


A

B

C

Immunofluorescence analysis of rat-lung tissue. 1, JAK2 Polyclonal Antibody (red) was diluted at 1:200 (4 °C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

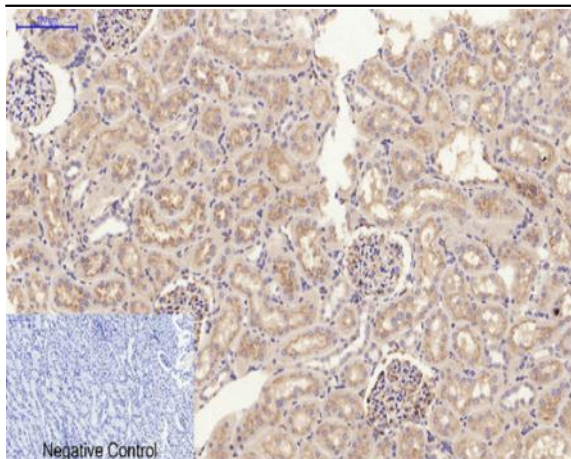


A

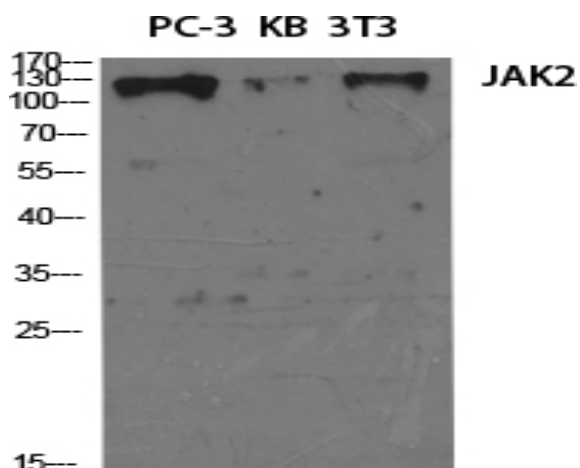
B

C

Immunofluorescence analysis of rat-spleen tissue. 1, JAK2 Polyclonal Antibody (red) was diluted at 1:200 (4 °C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



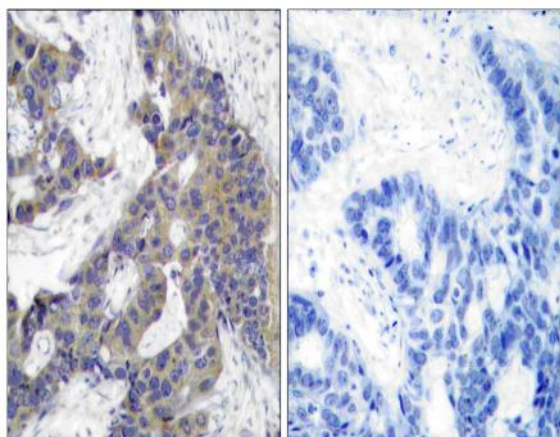
Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1, JAK2 Polyclonal Antibody was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C, 20min). 3, Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



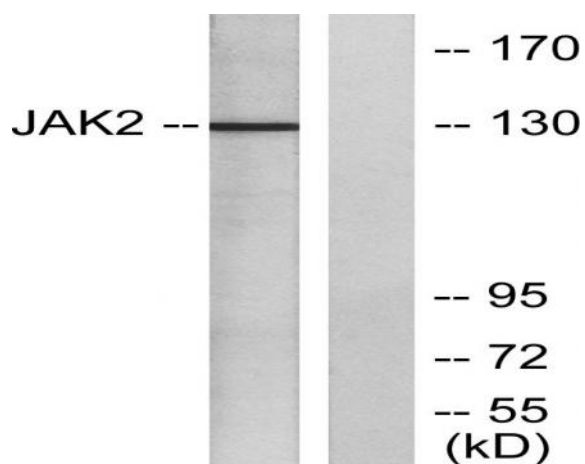
Western Blot analysis of various cells using JAK2 Polyclonal Antibody diluted at 1:2000



Western Blot analysis of HT29 cells using JAK2 Polyclonal Antibody diluted at 1:2000



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using JAK2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HT-29 cells, using JAK2 Antibody. The lane on the right is blocked with the synthesized peptide.