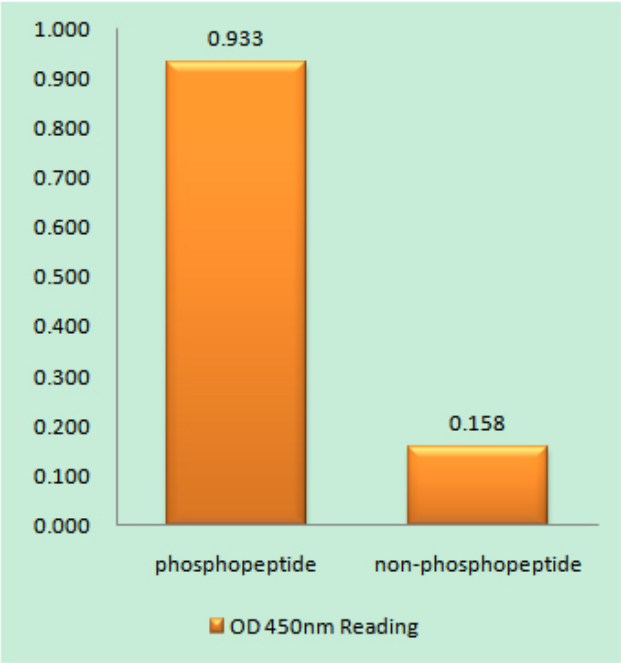
JAK2 (phospho Tyr931) Monoclonal Antibody

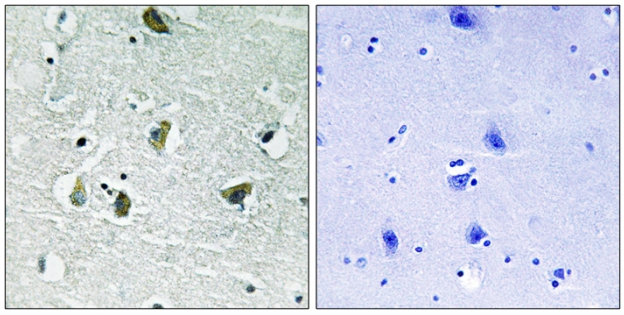
Catalog No	YP-mAb-14491
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	JAK2
Protein Name	Tyrosine-protein kinase JAK2
Immunogen	The antiserum was produced against synthesized peptide derived from human JAK2 around the phosphorylation site of Tyr931. AA range:906-955
Specificity	Phospho-JAK2 (Y931) Monoclonal Antibody detects endogenous levels of JAK2 protein only when phosphorylated at Y931.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	JAK2; Tyrosine-protein kinase JAK2; Janus kinase 2; JAK-2
Observed Band	130kD
Cell Pathway	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 incl
Background	This gene product is a protein tyrosine kinase involved in a specific subset of cytokine receptor signaling 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. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

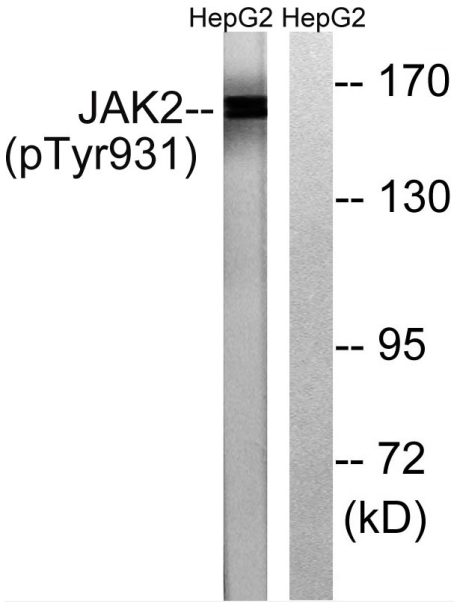
Products Images



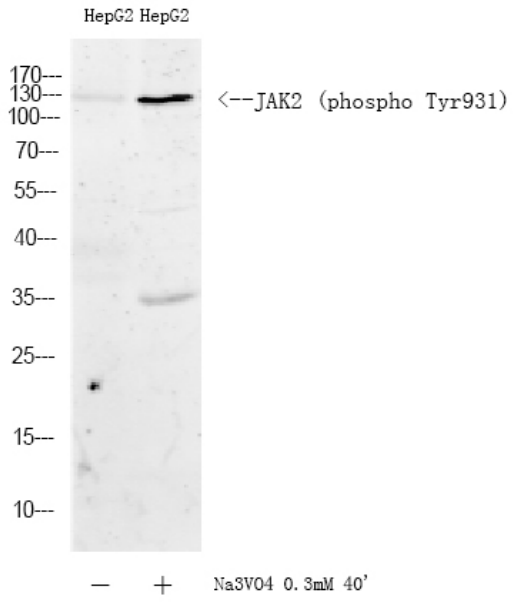
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using JAK2 (Phospho-Tyr931) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using JAK2 (Phospho-Tyr931) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells treated with Na3VO4 0.3mM 40', using JAK2 (Phospho-Tyr931) Antibody. The lane on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells treated or untreated with Na3VO4 0.3mM 40', using JAK2 (Phospho-Tyr931) Antibody.