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Datasheet for ABIN7251349 anti-JAK2 antibody

3 Images



#### Overview

Quantity:	200 µL
Target:	JAK2
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This JAK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p))

#### Product Details

Immunogen:	Synthesized peptide derived from human JAK2 around the non-phosphorylation site of Tyr1007.
lsotype:	lgG
Characteristics:	Polyclonal Antibody
Purification:	Affinity purification

## Target Details

Target:	JAK2
Alternative Name:	JAK2 (JAK2 Products)
Background:	Non-receptor tyrosine kinase involved in various processes such as cell cycle progression,
	apoptosis, mitotic recombination, genetic instability and histone modifications. In the

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	cytoplasm, plays a pivotal role in signal transduction via its association with cytokine receptors,
	which constitutes an initiating step in signaling for many members of the cytokine receptor
	superfamily including the receptors for growth hormone (GHR), prolactin (PRLR), leptin (LEPR),
	erythropoietin (EPOR), granulocyte-macrophage colony-stimulating factor (CSF2),
	thrombopoietin (THPO) and multiple interleukins. Following stimulation with erythropoietin
	(EPO) during erythropoiesis, it is autophosphorylated and activated, leading to its association
	with erythropoietin receptor (EPOR) and tyrosine phosphorylation of residues in the EPOR
	cytoplasmic domain. Also involved in promoting the localization of EPOR to the plasma
	membrane. Also acts downstream of some G-protein coupled receptors. Plays a role in the
	control of body weight (By similarity). Mediates angiotensin-2-induced ARHGEF1
	phosphorylation. In the nucleus, plays a key role in chromatin by specifically mediating
	phosphorylation of 'Tyr-41' of histone H3 (H3Y41ph), a specific tag that promotes exclusion of
	CBX5 (HP1 alpha) from chromatin.
Molecular Weight:	Observed_MW: 130 kDa
	Calculated_MW: 131 kDa
UniProt:	060674
Pathways:	JAK-STAT Signaling, RTK Signaling, Interferon-gamma Pathway, Positive Regulation of Peptide
	Hormone Secretion, Intracellular Steroid Hormone Receptor Signaling Pathway, Response to
	Growth Hormone Stimulus, Positive Regulation of Endopeptidase Activity, Protein targeting to
	Nucleus, CXCR4-mediated Signaling Events, Platelet-derived growth Factor Receptor Signaling,
	Unfolded Protein Response

## Application Details

Preservative:

Precaution of Use:

Application Notes:	WB 1:500-1:2000, IHC 1:100-1:300, IF 1:50-1:200, ELISA 1:10000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % sodium azide, 0.5 % BSA and 50 % glycerol, pH 7.4

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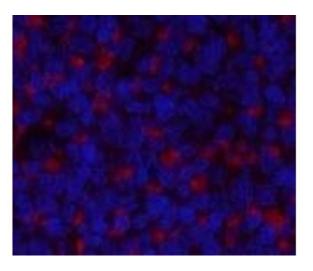
This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

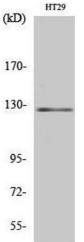
Sodium azide

## Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

## Images



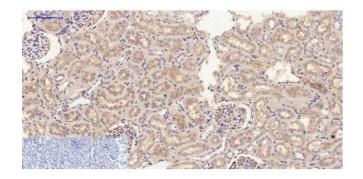


#### Immunofluorescence

**Image 1.** Immunofluorescence analysis of Rat spleen tissue using JAK2 Polyclonal Antibody at dilution of 1:200.

#### Western Blotting

**Image 2.** Western Blot analysis of HT-29 cells using JAK2 Polyclonal Antibody at dilution of 1:2000.



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Immunohistochemistry of paraffin-embedded Rat kidney tissue using JAK2 Polyclonal Antibody at dilution of 1:200.

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