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## Datasheet for ABIN681013 anti-JAK3 antibody (AA 601-700)

2 Images

1 Publication



#### Overview

Quantity:	100 µL
Target:	JAK3
Binding Specificity:	AA 601-700
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This JAK3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Jak3
Isotype:	lgG
Specificity:	This has 85 % sequence similarity with JAK1 and may cross-react.
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Dog,Cow,Pig,Horse
Purification:	Purified by Protein A.

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Target Details	
Target:	JAK3
Alternative Name:	Jak3 (JAK3 Products)
Background:	Synonyms: JAKL, LJAK, JAK-3, L-JAK, JAK3_HUMAN, Tyrosine-protein kinase JAK3, Janus
	kinase 3, Leukocyte janus kinase, JAK3
	Background: Non-receptor tyrosine kinase involved in various processes such as cell growth,
	development, or differentiation. Mediates essential signaling events in both innate and adaptive
	immunity and plays a crucial role in hematopoiesis during T-cells development. In the
	cytoplasm, plays a pivotal role in signal transduction via its association with type I receptors
	sharing the common subunit gamma such as IL2R, IL4R, IL7R, IL9R, IL15R and IL21R.
	Following ligand binding to cell surface receptors, phosphorylates specific tyrosine residues on
	the cytoplasmic tails of the receptor, creating docking sites for STATs proteins. Subsequently,
	phosphorylates the STATs proteins once they are recruited to the receptor. Phosphorylated
	STATs then form homodimer or heterodimers and translocate to the nucleus to activate gene
	transcription. For example, upon IL2R activation by IL2, JAK1 and JAK3 Molecules bind to IL2R
	beta (IL2RB) and gamma chain (IL2RG) subunits inducing the tyrosine phosphorylation of both
	receptor subunits on their cytoplasmic domain. Then, STAT5A AND STAT5B are recruited,
	phosphorylated and activated by JAK1 and JAK3. Once activated, dimerized STAT5
	translocates to the nucleus and promotes the transcription of specific target genes in a
	cytokine-specific fashion.
Gene ID:	3718
UniProt:	P52333
Pathways:	JAK-STAT Signaling, RTK Signaling, Response to Growth Hormone Stimulus, Regulation of
	Leukocyte Mediated Immunity, Production of Molecular Mediator of Immune Response, Protein
	targeting to Nucleus, Activated T Cell Proliferation, Unfolded Protein Response

## Application Details

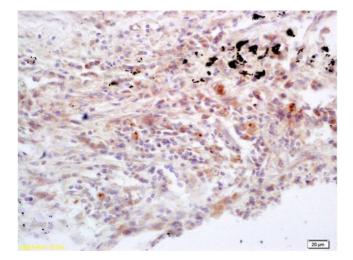
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200

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Application	Details
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	IF(ICC) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	
Product cited in:	Zhang, Liu, Li, Wang, Li, Sun: "Jak3 is involved in CCR7-dependent migration and invasion in metastatic squamous cell carcinoma of the head and neck." in: <b>Oncology letters</b> , Vol. 13, Issue 5, pp. 3191-3197, (2017) (PubMed).

## Images

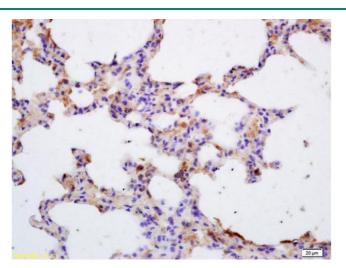


## Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin embedded human lung carcinoma labeled with Rabbit Anti Jak3 Polyclonal Antibody, Unconjugated (ABIN681013) at 1:200 followed by conjugation to the secondary antibody and DAB staining

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#### Images



#### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin embedded mouse lung labeled with Rabbit Anti Jak3 Polyclonal Antibody, Unconjugated (ABIN681013) at 1:200 followed by conjugation to the secondary antibody and DAB staining

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