

ARG67245 anti-Jak3 phospho (Tyr980 / 981) antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Jak3 phospho (Tyr980 / 981).
Tested Reactivity	Hu
Predict Reactivity	Ms
Tested Application	IHC-P, WB
Specificity	This antibody detects endogenous levels of JAK3 only when phosphorylated at Tyr980 or Tyr981, and dually phosphorylated at two sites.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Jak3
Species	Human
Immunogen	Synthesized phospho peptide from Human Jak3 (phospho Tyr980 / 981)
Conjugation	Un-conjugated
Alternate Names	JAK3; Janus Kinase 3; L-JAK; JAK-3; Tyrosine-Protein Kinase JAK3; Leukocyte Janus Kinase; JAK3_HUMAN; JAKL; LIAK; EC 2.7.10.2; Janus Kinase 3 (A Protein Tyrosine Kinase, Leukocyte); EC 2.7.10

Application Instructions

Application table	Application	Dilution
	IHC-P	1:100 - 1:300
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

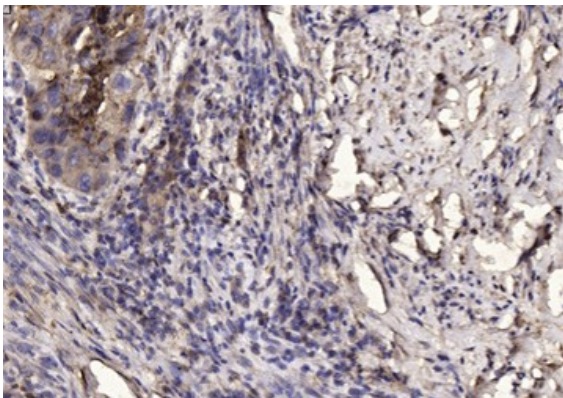
before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

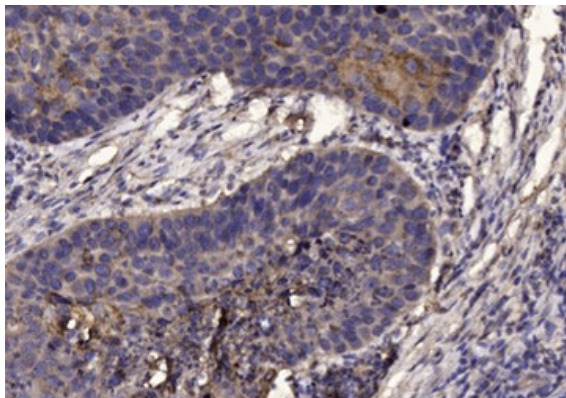
Gene Symbol	JAK3
Gene Full Name	Janus Kinase 3
Background	The protein encoded by this gene is a member of the Janus kinase (JAK) family of tyrosine kinases involved in cytokine receptor-mediated intracellular signal transduction. It is predominantly expressed in immune cells and transduces a signal in response to its activation via tyrosine phosphorylation by interleukin receptors. Mutations in this gene are associated with autosomal SCID (severe combined immunodeficiency disease). [provided by RefSeq, Jul 2008]
Function	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. [UniProt]
Calculated Mw	126 kDa
PTM	Phosphoprotein. [UniProt]
Cellular Localization	Cytoplasm, Membrane. [UniProt]

Images



ARG67245 anti-Jak3 phospho (Tyr980 / 981) antibody IHC-P image

Immunohistochemistry: Human Squamous cell carcinoma stained with ARG67245 anti-Jak3 phospho (Tyr980 / 981) antibody at 1:200 dilution.



ARG67245 anti-Jak3 phospho (Tyr980 / 981) antibody IHC-P image

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