

Datasheet for ABIN7174037

anti-JAK3 antibody (AA 351-614) (HRP)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	JAK3
Binding Specificity:	AA 351-614
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This JAK3 antibody is conjugated to HRP
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Tyrosine-protein kinase JAK3 protein (351-614AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	JAK3
Alternative Name:	JAK3 (JAK3 Products)
Background:	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

Target Details

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.

Aliases: EC 2.7.10.2 antibody, JAK 3 antibody, JAK L antibody, JAK-3 antibody, Jak3 antibody, JAK3 HUMAN antibody, JAK3_HUMAN antibody, JAKL antibody, Janus kinase 3 (a protein tyrosine kinase, leukocyte) antibody, Janus kinase 3 antibody, Janus Kinase3 antibody, L JAK antibody, L-JAK antibody, Leukocyte janus kinase antibody, LJAK antibody, Protein tyrosine kinase leukocyte antibody, Tyrosine protein kinase JAK3 antibody, Tyrosine-protein kinase JAK3 antibody

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:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.