

## DATASHEET

# JAK1 Mouse Monoclonal Antibody(C3470)

CAT. NO. AMA03082

### KEY FEATURES

Target	JAK1	Source / Host	Mouse
Reactivity	Human, Rat	Clonality	Monoclonal
Applications	WB, IF/ICC, IP	Conjugation	Unconjugated
Form / Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.	Storage	at-20°C

### BACKGROUND

Tyrosine kinase of the non-receptor type, involved in the IFN-alpha/beta/gamma signal pathway . Kinase partner for the interleukin (IL)-2 receptor as well as interleukin (IL)-10 receptor . Kinase partner for the type I interferon receptor IFNAR2 . In response to interferon-binding to IFNAR1-IFNAR2 heterodimer, phosphorylates and activates its binding partner IFNAR2, creating docking sites for STAT proteins . Directly phosphorylates STAT proteins but also activates STAT signaling through the transactivation of other JAK kinases associated with signaling receptors .

### APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:100
IP	1:10 - 1:50

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

### PRODUCT OVERVIEW

Description	Mouse monoclonal antibody to JAK1
Specificity	Recognizes endogenous levels of JAK1 protein.
Antibody Type	Primary antibody
Immunogen	Purified recombinant human Jak1 protein fragments expressed in E.coli.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 133 kD; Observed: 130 kD
Form/Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Alternative Names	JAK1A; JAK1B; Tyrosine-protein kinase JAK1; Janus kinase 1; JAK-1
Gene Symbol	JAK1
Entrez Gene	3716(Human)
SwissProt	P23458(Human)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

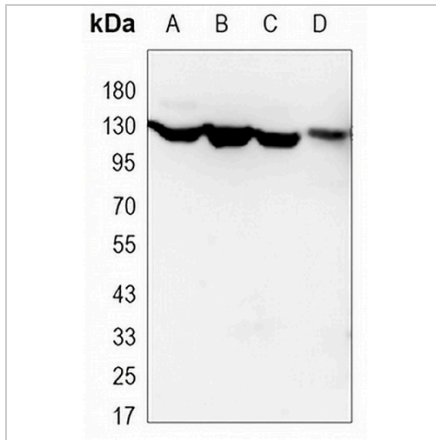
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET**

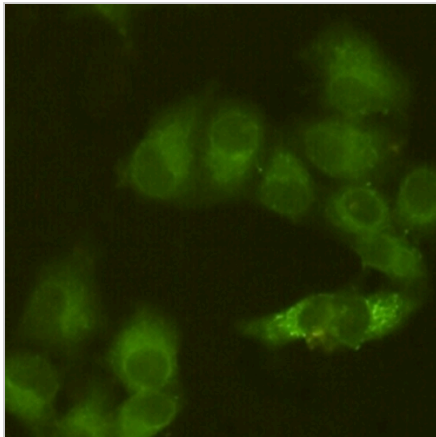
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**DATA**



Western blot analysis of JAK1 expression in C6 (A), Ramos (B), Jurkat (C), HeLa (D) whole cell lysates. (Predicted band size: 133 kD; Observed band size: 130 kD)



Immunofluorescent analysis of JAK1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.