

# Human Jak2 antibody

Catalog Number: ATGA0421

## PRODUCT INFORMATION

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**Catalog number**

ATGA0421

**Clone No.**

AT53B7

**Product type**

Monoclonal Antibody

**UnitProt No.**

O60674

**NCBI Accession No.**

NP\_004963

**Alternative Names**

Janus kinase 2, Janus kinase 2, Janus kinase 2 (a protein tyrosine kinase), JTK10

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human JAK2 (1014-1132aa) purified from E. coli

**Isotype**

IgG2b kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, FACS, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

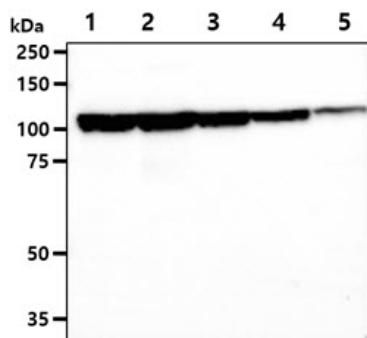
JAK2 is a protein tyrosine kinase involved in a specific subset of cytokine receptor signaling pathways. It has been found to be constitutively associated with the prolactin receptor and is required for responses to gamma interferon. Mice that do not express an active protein for this gene exhibit embryonic lethality associated with the absence of definitive erythropoiesis.

### General References

Bole-Feycot C., et al. (1998) *Endocr Rev.* 19(3): 225-68. doi:10.1210/er.19.3.225.

## DATA

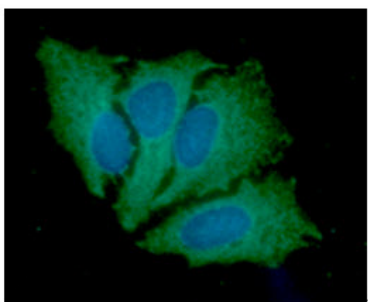
### Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human JAK2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : K-562 cell lysate  
Lane 2. : TF-1 cell lysate  
Lane 3. : 293T cell lysate  
Lane 4 : Jurkat cell lysate  
Lane 5 : THP-1 cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

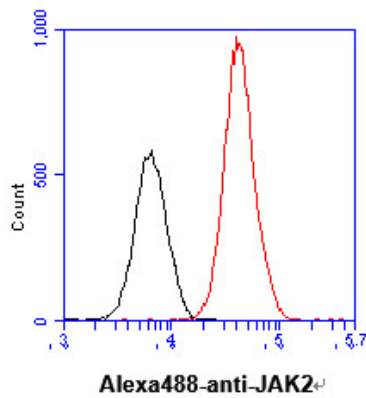


ICC/IF analysis of JAK2 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human JAK2 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

### Flow cytometry (FACS)

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Flow cytometry analysis of JAK2 in HeLa cell line, staining at 2-5ug for 1x10<sup>6</sup> cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).