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Human Jak2 antibody

Catalog Number: ATGA0421

PRODUCT INFORMATION

Catalog number

ATGA0421

Clone No.

AT53B7

Product type

Monoclonal Antibody

UnitProt No.

060674

NCBI Accession No.

NP 004963

Alternative Names

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

PRODUCT SPECIFICATION

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

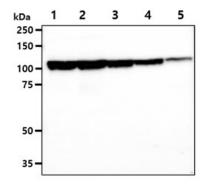
JAK2 is a protein tyrosine kinase involved in a specific subset of cytokine receptor signaling pathways. It has been found to be constituitively associated with the prolactin receptor and is required for responses to gamma interferon. Mice that do not express an active protein for this gene exhibit embryonic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

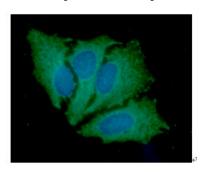
Western blot analysis (WB)



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).

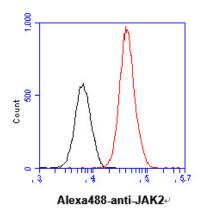
Flow cytometry (FACS)



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Flow cytometry analysis of JAK2 in HeLa cell line, staining at 2-5ug for 1x106cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

