

JAK2. Mouse Monoclonal Antibody 691R5 , Humans, Mouse, Rat

Janus Activating Kinase 2

BACKGROUND

Janus Activating Kinase 2 (JAK2) is a 130 kDa tyrosine kinase involved in cytoplasmic signal transduction. Ligand binding to a variety of cell surface receptors (e.g., cytokine, growth factor, GPCRs) leads to an association of those receptors with JAK proteins, which are then activated via phosphorylation on tyrosines 1007 and 1008 in the kinase activation loop. Activated JAK proteins phosphorylate and activate STAT (signal transducers and activators of transcription) proteins, which then dimerize and translocate to the nucleus. Once in the nucleus, STAT proteins bind to DNA and modify the transcription of various genes, which can lead to various responses such as cell proliferation, cell survival and differentiation.

ORDERING INFORMATION

CATALOG NUMBER
X1953M

SIZE
100 µg

FORM
Unconjugated

HOST/CLONE
Mouse Clone 691R5

FORMULATION
Provided as solution in phosphate buffered saline, pH 7.2, with 1% BSA and 0.08% sodium azide

CONCENTRATION
0.5 mg/ml

ISOTYPE
IgG2b

APPLICATIONS
Western Blot

IMMUNOGEN

Recombinant fragment of human JAK2 expressed in E. coli.

SPECIES REACTIVITY

Humans, Mouse, Rat

Legend:

Western blot analysis using JAK2 antibody, clone 691R5 on Jurkat lysate. Antibody used at 1 µg/ml and incubated for 2 hours at room temperature.



For research use only. Not for use in human diagnostics or therapeutics.

POSITIVE CONTROL/TISSUE EXPRESSION

Human Jurkat cells, mouse 3T3L1 cells and rat L6 cells.

COMMENTS

Antibody can be used for Western blotting (1-5 µg/ml). Optimal concentration should be evaluated by serial dilutions.

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

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