

Anti-Phospho-JAK2 (Y221) Antibody

Catalog Number: P00027-2

About JAK2

Janus kinase 2, commonly called JAK2, is a human protein that has been implicated in signaling by members of the type II cytokine receptor family, the GM-CSF receptor family, the gp130 receptor family, and the single chain receptors. Exactly, JAK2 kinase is a member of a family of tyrosine kinases involved in cytokine receptor signaling. The JAK2 gene is mapped to 9p24.1. The JAK2 gene encodes a 1,132-amino acid protein that shares 95% sequence similarity to rat and pig Jak2. JAK2 is constitutively associated with the prolactin receptor and that it is activated and tyrosine phosphorylated upon PRL binding to the PRL receptor. JAK2, and more specifically just its intact N-terminal domain, binds to EPOR in the endoplasmic reticulum and promotes its cell surface expression. The human JAK2 is present in the nucleus of hematopoietic cells and directly phosphorylates tyr41 on histone H3.

Overview

Product Name	Anti-Phospho-JAK2 (Y221) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-JAK2 (Y221) Antibody catalog # P00027-2. Tested in WB, IHC, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg stabilizing protein and 50% glycerol This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months at 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	O60674

Technical Details

Immunogen	A synthesized peptide derived from human JAK2 around the phosphorylation site of Tyr221.
Form	Liquid
Concentration	500 ug/ml
Purification	Protein A affinity purified.

Suggested Dilutions

Western blot, 1:500-2000
Immunohistochemistry, 1:50-200
Immunocytochemistry/Immunofluorescence, 1:50-200

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