

Phospho-JAK2 Positive Control | JAK2 positive control

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CATALOG # AAA75979	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

Phospho-JAK2; Phospho-JAK2 Positive Control; JAK2 positive control

PRODUCT SPECIFICATIONS

Form/Format	Western Blot Positive Control Prepared in SDS-sample buffer
Concentration	Empirically set for optimal signal-to-noise ratio (varies by lot)
Sequence Length	1132
Applicable Applications for JAK2 positive control	WB (Western Blot)
Immunogen	Purified Protein
Molecular Function	Adaptive immunity, Immunity, Innate immunity
Subcellular Location	Endomembrane system; Peripheral membrane protein; Cytoplasm; Nucleus
Expression	Ubiquitously expressed throughout most tissues.
Structure	Possesses 2 protein kinase domains. The second one probably contains the catalytic domain, while the presence of slight differences suggest a different role for protein kinase 1.
Preparation and Storage	Store at -20°C for long term storage

ADDITIONAL INFORMATION

Related Product Information for JAK2 positive control	Western Blot Positive Control Phosphorylated Tyrosine-protein kinase JAK2 antibody Overview: Non-receptor tyrosine kinase involved in various processes such as cell growth, development, differentiation or histone modifications. Mediates essential signaling events in both innate and adaptive immunity. In the cytoplasm, plays a pivotal role in signal transduction via its association with type I receptors such as growth hormone (GHR), prolactin (PRLR), leptin (LEPR), erythropoietin (EPOR), thrombopoietin (THPO); or type II receptors including IFN-alpha, IFN-beta, IFN-gamma and multiple interleukins (PubMed:7615558). Following ligand-binding to cell surface receptors, phosphorylates specific tyrosine residues on the cytoplasmic tails of the receptor, creating docking sites for STATs proteins (PubMed:9618263). Subsequently, phosphorylates the STATs proteins once they are recruited to the receptor.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	12643404
NCBI GeneID	3717
UniProt Accession #	O60674; O14636; O75297
NCBI Official Full Name	Tyrosine-protein kinase JAK2

NCBI Official Synonym Full Names	Janus kinase 2
NCBI Official Symbol	JAK2
NCBI Official Synonym Symbols	JTK10; THCYT3
NCBI Protein Information	tyrosine-protein kinase JAK2
UniProt Protein Name	Tyrosine-protein kinase JAK2
UniProt Gene Name	JAK2
UniProt Synonym Gene Names	JAK-2
UniProt Entry Name	JAK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/positive-control/phospho-jak2/75979>