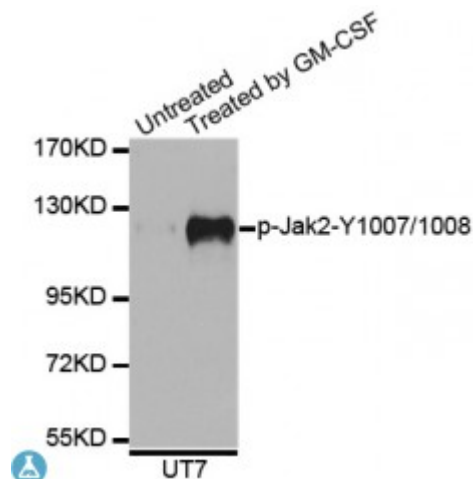


Anti-Phospho-NA-(Y1007/1008) Antibody



Description

This gene product 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.

Model	STJ117874
Host	Rabbit
Reactivity	Human
Applications	WB
Immunogen	A phospho specific peptide corresponding to residues surrounding Y1007/1008 of human Jak2
Gene ID	3717
Gene Symbol	JAK2
Dilution range	WB 1:500 - 1:1000
Tissue Specificity	Ubiquitously expressed throughout most tissues
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Tyrosine-protein kinase JAK2
Molecular Weight	130.674 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:6192OMIM:147796Reactome:R-HSA-1059683
Alternative Names	Tyrosine-protein kinase JAK2
Function	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)
Cellular Localization	Endomembrane system
Post-translational Modifications	Autophosphorylated, leading to regulate its activity, Leptin promotes phosphorylation on tyrosine residues, including phosphorylation on Tyr-813 , Autophosphorylation on Tyr-119 in response to EPO down-regulates its kinase activity , Autophosphorylation on Tyr-868, Tyr-966 and Tyr-972 in response to growth hormone (GH) are required for maximal kinase activity , Also phosphorylated by TEC , Phosphorylated on tyrosine residues in response to interferon gamma signaling ,