

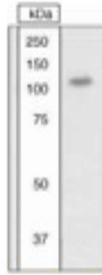
JAK1

Rabbit Anti-Human Janus Kinase 1 pAb

Catalog No.	CSI10241	Quantity:	100 µl
Alternate Names:	JAK1A, JAK1B, JTK3, janus kinase 1		
Description:	JAK1 PAb; Unconjugated Polyclonal antibody specific to Human, Mouse, Rat JAK1. This antibody is validated for use in Western Blot. Anti-JAK1 recognizes the expressed product of the JAK1 gene.		
Gene ID:	3716		
Purity:	Purified from rabbit serum by epitope-specific chromatography.		
Host:	Rabbit		
Immunogen:	The antibody was produced using a synthetic peptide derived from an internal region of human JAK1. The sequence is conserved in mouse and rat.		
Target Summary:	Janus Kinase 1 (JAK1) 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 of tyrosine residues 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		
Formulation:	Rabbit polyclonal immunoglobulin in Dulbecco's phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.3 (+/- 0.1), 50% glycerol with 1.0 mg/mL BSA (IgG, protease free) as a carrier.		
Preservative:	0.05% sodium azide. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Positive Control Used:	3T3-L1 adipocytes +/- Leukemia Inhibitory Factor (LIF).		
Reactivity:	Human, mouse and rat JAK1.		
Applications:	This antibody has been used in Western blotting. Other applications may work but have not been tested.		
Application Notes:	For Western blotting applications, we recommend using the antibody at a 1:1,000 starting dilution. The optimal antibody concentration should be determined empirically for each specific application.		
Storage & Stability:	Store at -20°C. We recommend a brief centrifugation before opening to settle vial contents. Then, apportion into working aliquots and store at -20°C. For shipment or short-term storage (up to one week), 2-8°C is sufficient. Expires one year from date of receipt when stored as instructed.		



Extracts of 3T3-L1 cells stimulated with 20 ng/mL LIF for 10 minutes were resolved by SDS-PAGE on a 10% Tris-glycine gel and transferred to PVDF. The membrane was blocked with a 5% BSA-TBST buffer for one hour at room temperature, then incubated with the JAK1 pan antibody for two hours at room temperature in a 1% BSA-TBST buffer. After washing, the membrane was incubated with goat F (ab')₂ anti-rabbit IgG HRP conjugate and signals were detected using the Pierce SuperSignal™ method.



Western Blot.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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