

Product datasheet for **AP21043PU-N**

JAK1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	Immunohistochemistry: 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	JAK1 pAb detects endogenous levels of JAK1 protein.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1,0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	Janus kinase 1
Database Link:	Entrez Gene 16451 Mouse Entrez Gene 84598 Rat Entrez Gene 3716 Human P23458



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Background:

Janus kinase 1 (JAK1) is a member of a new class of nonreceptor protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The second phosphotransferase domain bears all the hallmarks of a protein kinase, although its structure differs significantly from that of the PTK and threonine/serine kinase family members. JAK1 is a large, widely expressed membrane-associated phosphoprotein. It is involved in the interferon-alpha/beta and -gamma signal transduction pathways. The reciprocal interdependence between JAK1 and TYK2 activities in the interferon-alpha pathway, and between JAK1 and JAK2 in the interferon-gamma pathway, may reflect a requirement for these kinases in the correct assembly of interferon receptor complexes. These kinases couple cytokine ligand binding to tyrosine phosphorylation of various known signaling proteins and a unique family of transcription factors termed the signal transducers and activators of transcription, or STATs.

Synonyms:

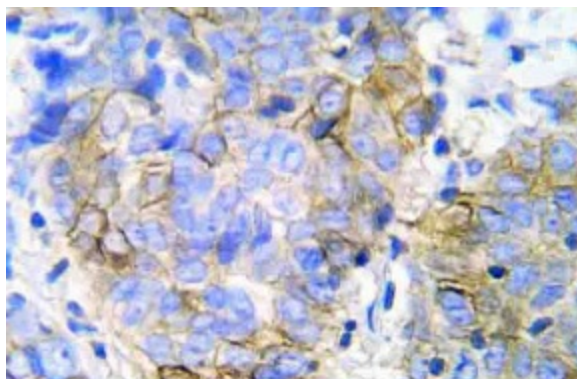
Janus kinase 1, JAK-1, JAK1A, JAK1B

Protein Families:

Druggable Genome, Protein Kinase

Protein Pathways:

Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer

Product images:

Immunohistochemistry (IHC) analyzes of JAK1 pAb in paraffin-embedded human lung adenocarcinoma tissue.