

## Product datasheet for **TA360519**

### JAK1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human JAK1
Specificity:	<b>Expected reactivity:</b> Human
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	133 kDa
Gene Name:	Janus kinase 1
Database Link:	<a href="#">NP_002218.2</a> <a href="#">Entrez Gene 3716 Human</a> <a href="#">P23458</a>



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**Background:**

Janus kinase 1 (JAK1), is a member of a new class of 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. JAK1 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 of a unique family of transcription factors termed the signal transducers and activators of transcription, or STATs.

**Synonyms:**

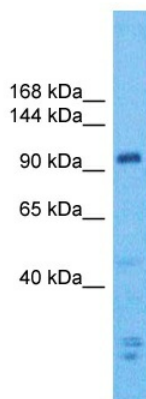
JAK-1; JAK1A; JAK1B; JTK3

**Protein Families:**

Druggable Genome, Protein Kinase

**Protein Pathways:**

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

**Product images:**

Host: Rabbit  
Target Name: JAK1  
Sample Type: Stomach Tumor Lysate  
Antibody Dilution: 1.0µg/ml

Host: Rabbit  
Target Name: JAK1  
Sample Tissue: Human Stomach Tumor  
Antibody Dilution: 1.0ug/ml