

## Rabbit JAK2 Polyclonal Antibody | anti-JAK2 antibody

JAK2 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA40678  | Rabbit | Human, Mouse, Rat | Immunohistochemistry, Western Blot, ELISA |

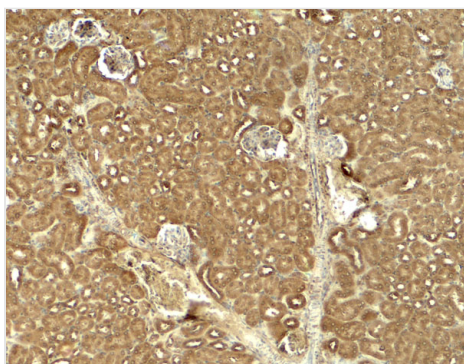
### PRODUCT SYNONYMS

JAK2; Polyclonal Antibody; JAK2 Antibody; Janus kinase 2; JTK10; THCYT3; anti-JAK2 antibody

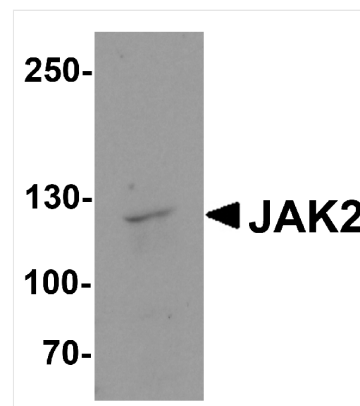
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                 |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                          |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                               |
| Clonality                                      | Polyclonal                                                                                                                                      |
| Isotype                                        | IgG                                                                                                                                             |
| Specificity                                    | JAK2 antibody is human, mouse and rat reactive. JAK2 antibody is predicted to not cross-react with other members of the JAK family of proteins. |
| Purity/Purification                            | JAK2 antibody is affinity chromatography purified via peptide column.                                                                           |
| Form/Format                                    | Liquid                                                                                                                                          |
| Concentration                                  | 1 mg/mL (varies by lot)                                                                                                                         |
| Sequence Length                                | 1132                                                                                                                                            |
| Applicable Applications for anti-JAK2 antibody | IHC (Immunohistochemistry), WB (Western Blot), ELISA                                                                                            |
| Conjugate                                      | Unconjugated                                                                                                                                    |
| Immunogen                                      | JAK2 antibody was raised against an 18 amino acid peptide near the carboxy terminus of human JAK2.                                              |
| Buffer                                         | JAK2 antibody is supplied in PBS containing 0.02% sodium azide.                                                                                 |
| Preparation and Storage                        | JAK2 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.                                         |

### IMAGES



**IHC (Immunohistochemistry)**  
Immunohistochemistry of JAK2 in mouse kidney tissue with JAK2 antibody at 5 &#956;g/ml.



**WB (Western Blot)**  
Western blot analysis of JAK2 in HeLa cell lysate with JAK2 antibody at 1 &#956;g/ml.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-JAK2 antibody | JAK2 is a member of the JAK family of kinases that also include JAK1, JAK3, and TYK2 (1,2). JAK kinases are activated following tyrosine phosphorylation of cytokine receptors after ligand binding. JAK2 activation promotes the recruitment and phosphorylation of STAT3 and STAT5. These transcription factors then translocate to the nucleus where they bind specific DNA promoter sequences resulting in the transcription of genes that regulate cell proliferation, differentiation, and apoptosis (3). Mice with a disrupted JAK2 gene exhibit embryonic lethality associated with the absence of definitive erythropoiesis (4). |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| NCBI GI #                        | 4826776                                                                         |
| NCBI GeneID                      | 3717                                                                            |
| NCBI Accession #                 | NP_004963                                                                       |
| NCBI GenBank Nucleotide #        | NM_004972.3                                                                     |
| UniProt Accession #              | O60674; O14636; O75297                                                          |
| Molecular Weight                 | Predicted: 125 kDa<br>Observed: 125 kDa                                         |
| 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; JAK-2; Janus kinase 2 (a protein tyrosine kinase) |
| 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/polyclonal/jak2-antibody-immunohistochemistry-western-blot-elisa/40678>