

# Product Datasheet

## Jak2 [p Tyr1007, p Tyr1008] Antibody (SY24-03) NBP2-67429

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-67429**

Jak2 [p Tyr1007, p Tyr1008] Antibody (SY24-03)

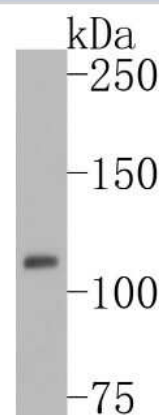
| Product Information     |                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------|
| Unit Size               | 100 ul                                                                                 |
| Concentration           | 1 mg/ml                                                                                |
| Storage                 | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality               | Monoclonal                                                                             |
| Clone                   | SY24-03                                                                                |
| Preservative            | 0.05% Sodium Azide                                                                     |
| Isotype                 | IgG                                                                                    |
| Purity                  | Protein A purified                                                                     |
| Buffer                  | TBS (pH7.4), 0.05% BSA, 40% Glycerol                                                   |
| Target Molecular Weight | 131 kDa                                                                                |

| Product Description |                                                                                                                                                                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description         | Novus Biologicals Rabbit Jak2 [p Tyr1007, p Tyr1008] Antibody (SY24-03) (NBP2-67429) is a recombinant monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-Jak2 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host                | Rabbit                                                                                                                                                                                                                                                                                  |
| Gene ID             | 3717                                                                                                                                                                                                                                                                                    |
| Gene Symbol         | JAK2                                                                                                                                                                                                                                                                                    |
| Species             | Human, Mouse, Rat                                                                                                                                                                                                                                                                       |
| Immunogen           | Synthetic phospho-peptide corresponding to residues surrounding Tyr1007 and 1008 of human Jak2. (SwissProt: O60674 Human; SwissProt: Q62120 Mouse; SwissProt: Q62689 Rat)                                                                                                               |

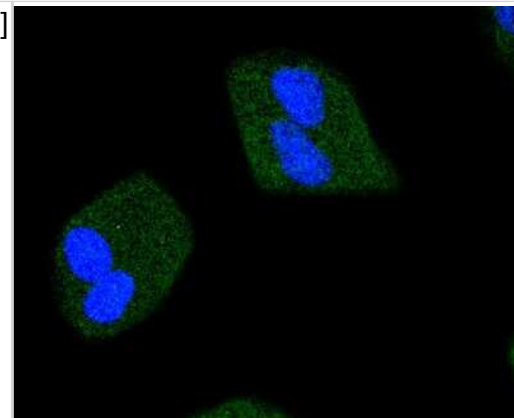
| Product Application Details |                                                                                                                                                                                                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applications                | Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation                                                                                |
| Recommended Dilutions       | Western Blot 1:500-1:1000, Immunohistochemistry 1:200-1:500, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunoprecipitation Assay dependent concentration, Immunohistochemistry-Paraffin 1:200-1:500 |

**Images**

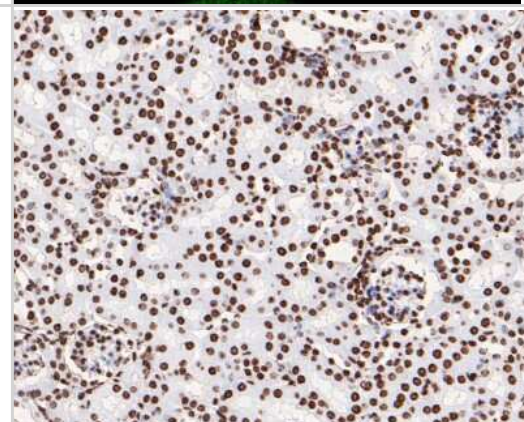
Western Blot: Jak2 [p Tyr1007, p Tyr1008] Antibody (SY24-03) [NBP2-67429] - ICC staining of Phospho-JAK2(Y1007+Y1008) in Hela cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with the primary antibody (1/50) for 1 hour at room temperature, washed with PBS. Alexa Fluor (TM) 488 Goat anti-Rabbit IgG was used as the secondary antibody at 1/1,000 dilution. The nuclear counter stain is DAPI (blue).



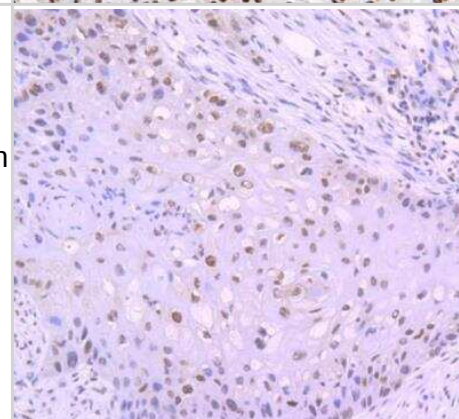
Immunocytochemistry/Immunofluorescence: Jak2 [p Tyr1007, p Tyr1008] Antibody (SY24-03) [NBP2-67429] - Staining Phospho-JAK2 (Y1007+Y1008) in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



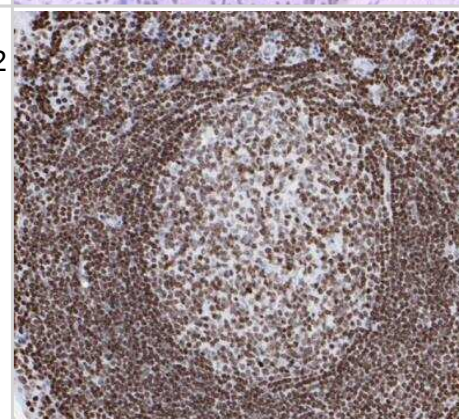
Immunohistochemistry-Paraffin: Jak2 [p Tyr1007, p Tyr1008] Antibody (SY24-03) [NBP2-67429] - Analysis of paraffin-embedded mouse kidney tissue using anti-Jak2 [p Tyr1007, p Tyr1008] antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody (1/200) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



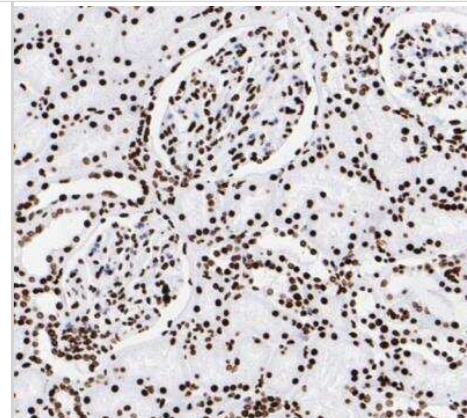
Immunohistochemistry-Paraffin: Jak2 [p Tyr1007, p Tyr1008] Antibody (SY24-03) [NBP2-67429] - Analysis of paraffin-embedded human lung carcinoma tissue using anti-Phospho-JAK2(Y1007+Y1008) antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody (1/200) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



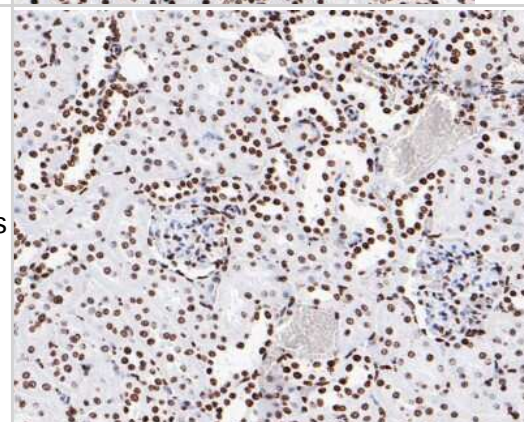
Immunohistochemistry-Paraffin: Jak2 [p Tyr1007, p Tyr1008] Antibody (SY24-03) [NBP2-67429] - Human tonsil tissue using anti-Phospho-JAK2 (Y1007+Y1008) antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody (1/200) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunohistochemistry-Paraffin: Jak2 [p Tyr1007, p Tyr1008] Antibody (SY24-03) [NBP2-67429] - Human kidney tissue using anti-Phospho-JAK2(Y1007+Y1008) antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (1/200) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunohistochemistry-Paraffin: Jak2 [p Tyr1007, p Tyr1008] Antibody (SY24-03) [NBP2-67429] - Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-Jak2 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1607-34, 1/200) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



## Publications

Futoon Abedrabbu Al-Rawashde, Abdullah Saleh Al-wajeeth, Mansoureh Nazari Vishkaei, Hanan Kamel M. Saad, Muhammad Farid Johan, Wan Rohani Wan Taib et al. Thymoquinone Inhibits JAK/STAT and PI3K/Akt/ mTOR Signaling Pathways in MV4-11 and K562 Myeloid Leukemia Cells Pharmaceuticals (Basel) 2022-09-08 [PMID: 36145344]

Tang Y, Luo K, Chen Y, et al. Phosphorylation inhibition of protein-tyrosine phosphatase 1B tyrosine-152 induces bone regeneration coupled with angiogenesis for bone tissue engineering Bioactive materials 2021-07-01 [PMID: 33511306] (WB, Rat)



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### **Products Related to NBP2-67429**

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|            |                                                     |
|------------|-----------------------------------------------------|
| HAF008     | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160     | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control                          |
| NBP2-23154 | Recombinant Human Jak2 His Protein                  |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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