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| <b>Product name:</b>     | JAK2 Rabbit Monoclonal antibody                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Cat number:</b>       | MABN03780                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Conjugate:</b>        | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Size:</b>             | 100μL                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clone:</b>            | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Concentration:</b>    | 1mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Host:</b>             | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Isotype:</b>          | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Immunogen:</b>        | A synthetic peptide corresponding to target protein                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Reactivity:</b>       | Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Applications:</b>     | WB 1:500-1:1000                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Weight:</b> | Calculated MW: 131 kDa; Observed MW: 131 kDa                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purification:</b>     | Affinity Purified                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form:</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Buffer:</b>           | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage:</b>          | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Background:</b>       | Phosphorylated STATs then form homodimer or heterodimers and translocate to the nucleus to activate gene transcription. For example, cell stimulation with erythropoietin (EPO) during erythropoiesis leads to JAK2 autophosphorylation, activation, and its association with erythropoietin receptor (EPOR) that becomes phosphorylated in its cytoplasmic domain. Then, STAT5 (STAT5A or STAT5B) is recruited, phosphorylated and activated by JAK2. |