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| <b>Product name:</b>  | JAK2 (7H5) Mouse Monoclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cat number:</b>    | MABN03344                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Conjugate:</b>     | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Size:</b>          | 100µL                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clone:</b>         | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Concentration:</b> | 1mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Host:</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Isotype:</b>       | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen:</b>     | A synthetic peptide corresponding to target protein                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Reactivity:</b>    | Human,Rat,Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications:</b>  | IHC 1:50-1:100                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purification:</b>  | Affinity Purification                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Form:</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Buffer:</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.                                                                                                                                                                                                                                                                                                                                                                        |
| <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. |