

## Product datasheet for **PP1031P1**

### IL9 Rabbit Polyclonal Antibody

#### Product data:

|                        |   |
|------------------------|---|
| Product Type:          | Primary Antibodies  |
| Applications:          | ELISA, FN, WB   |
| Recommended Dilution:  | <b>Neutralization:</b> To yield one-half maximal inhibition [ND50] of the biological activity of Human IL-9 (5.0 ng/ml), a concentration of 1.0-2.0 µg/ml of this antibody is required.<br><b>Sandwich ELISA:</b> To detect Human IL-9 by Sandwich ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5-2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with Biotinylated anti-Human IL9 antibody (PP1031B1 or PP1031B2) as a Detection antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant Human IL-9.<br><b>Western Blot:</b> To detect hIL-9 by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hIL-9 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions. |
| Reactivity:            | Human   |
| Host:                  | Rabbit  |
| Clonality:             | Polyclonal  |
| Immunogen:             | Highly pure (>98%), E.coli derived 14.0 kDa recombinant Human IL-9  |
| Specificity:           | This antibody detects Interleukin-9.  |
| Formulation:           | PBS, pH 7.2 without preservatives.<br>State: Aff - Purified<br>State: Lyophilized (sterile filtered) purified Ig fraction   |
| Reconstitution Method: | Restore in sterile water to a concentration of 0.1-1.0 mg/ml.   |
| Purification:          | Affinity Chromatography.  |
| Conjugation:           | Unconjugated  |
| Storage:               | Store lyophilized at 2-8°C for 6 months or at -20°C long term.<br>After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.<br>Avoid repeated freezing and thawing.   |
| Stability:             | Shelf life: one year from despatch.   |



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| <b>Gene Name:</b>        | interleukin 9  |
| <b>Database Link:</b>    | <a href="#">Entrez Gene 3578 Human P15248</a>  |
| <b>Background:</b>       | Interleukin 9 (IL9) is a cytokine preferentially produced by T helper type 2 lymphocytes and active on various cell types such as T and B lymphocytes, mast cells and haemopoietic progenitors; but no effect of this cytokine has been reported so far on mononuclear phagocytes. IL9 stimulates cell proliferation and prevents apoptosis. The IL9 receptor (IL 9R) belongs to the haemopoietic receptor superfamily and its signal transduction involves mainly the (JAK/STAT) pathway. Some studies have implicated IL9 as an important cytokine in a number of Th2 cytokine mediated pathologies, in particular asthma. |
| <b>Synonyms:</b>         | IL-9, T-cell growth factor P40, P40 cytokine   |
| <b>Note:</b>             | Centrifuge vial prior to opening!  |
| <b>Protein Families:</b> | Druggable Genome, Secreted Protein   |
| <b>Protein Pathways:</b> | Asthma, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway   |