

## Product datasheet for **AP09069SU-N**

### Horseradish Peroxidase / HRP Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IP, WB
Recommended Dilution:	Western Blot. Dot Blot. Immunoprecipitation. ELISA: 1/9,000-1/40,000. This product has been assayed against 1.0 µg of Peroxidase [Horseradish] in a standard sandwich ELISA using Alkaline Phosphatase conjugated Affinity Purified anti-Goat IgG [H&L] (Rabbit) and pNPP as a substrate for 30 minutes at room temperature.
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Peroxidase [Horseradish]
Specificity:	This antibody recognizes Horseradish Peroxidase.
Formulation:	0.01 M Sodium Phosphate, 0.14 M Sodium Chloride, pH 7.4 State: Serum State: Lyophilized
Reconstitution Method:	Restore with 2.0 ml of deionized water (or equivalent).
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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**Background:**

Horseradish Peroxidase (HRP) is an enzyme commonly used as an indicator for chemical reactions which produce peroxide. The enzyme is routinely conjugated to antibodies for use in enzyme-based immunoassay systems.

HRP functions in the removal of H<sub>2</sub>O<sub>2</sub> (hydrogen peroxide), oxidation of toxic reductants, biosynthesis and degradation of lignin, suberization, auxin catabolism, response to environmental stresses such as wounding, pathogen attack and oxidative stress. These functions might be dependent on each isozyme/isoform in each plant tissue.