

Product datasheet for **AP09103AF-N**

Horseradish Peroxidase / HRP Sheep Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IP, WB
Recommended Dilution:	ELISA: 1/10000-1/40000. Dot Blot. Western Blot: 1/1000-1/4000. Immunoprecipitation.
Host:	Sheep
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Native Peroxidase [Horseradish]
Specificity:	Assay by immunoelectrophoresis resulted in a single precipitin arc against purified and partially purified Peroxidase [Horseradish]. Cross reactivity against Peroxidase from other tissues and species may occur but have not been specifically determined.
Formulation:	0.01M Sodium Phosphate, 0.14M Sodium Chloride, pH 7.4 State: Azide Free State: Lyophilized antiserum prepared from monospecific antiserum by a Delipidation and Defibrination. Stabilizer: None Preservative: None
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 H₂O₂ (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.