



# Horseradish Peroxidase (HP-03): sc-51625

## BACKGROUND

Peroxidases are widely distributed across microorganisms, plants and animals. In plants, peroxidases have been implicated in a variety of secondary metabolic reactions. Horseradish (*Armoracia rusticana*) root is the primary source of commercial peroxidase production. Horseradish Peroxidase (also called HRP) is a secretory plant peroxidase that catalyzes the oxidation of small aromatic substrates, such as plant hormones and lignin precursors, by hydrogen peroxide. A single chain polypeptide containing four disulfide bridges, Horseradish Peroxidase belongs to a group of peroxidases called ferroporphyrins. It is a non-cytotoxic tracer that is frequently used in immunohistochemistry to label antigens and their antibodies.

## REFERENCES

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## SOURCE

Horseradish Peroxidase (HP-03) is a mouse monoclonal antibody raised against Horseradish Peroxidase (Grade I).

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Horseradish Peroxidase (HP-03) is recommended for detection of Horseradish Peroxidase of *Armoracia rusticana* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of Horseradish Peroxidase: 40 kDa.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## SELECT PRODUCT CITATIONS

- Fu, Q., et al. 2015. MicroRNA-335 and -543 suppress bone metastasis in prostate cancer via targeting endothelial nitric oxide synthase. *Int. J. Mol. Med.* 36: 1417-1425.
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## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.