



Horseradish Peroxidase (p6/38/20): sc-53322

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 (p6/38/20) is a mouse monoclonal antibody raised against Horseradish Peroxidase.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

Horseradish Peroxidase (p6/38/20) is recommended for detection of Horseradish Peroxidase of *Armoracia rusticana* origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of Horseradish peroxidase: 40 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.