

Anti-HRP antibody ab181658

[23 References](#) [2 Images](#)

Overview

Product name	Anti-HRP antibody
Description	Goat polyclonal to HRP
Host species	Goat
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Horseradish
Immunogen	Full length native protein (purified) corresponding to HRP. (Horseradish). Database link: P00433
Positive control	Horseradish peroxidase
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 0.27% Potassium phosphate, 0.88% Sodium chloride
Purity	IgG fraction
Purification notes	ab181658 was purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab181658 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 39 kDa.

Target

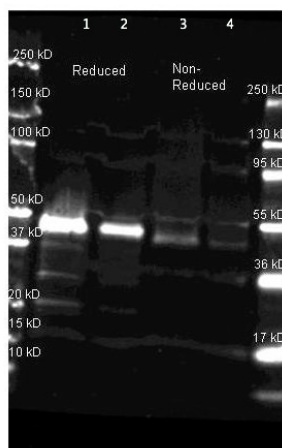
Relevance

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.

Cellular localization

Secreted Probable. Vacuole Probable. Note: Carboxy-terminal extension appears to target the protein to vacuoles.

Images



Western blot - Anti-HRP antibody (ab181658)

All lanes : Anti-HRP antibody (ab181658) at 1/5000 dilution

Lane 1 : Horseradish peroxidase (reducing conditions) at 1 µg

Lane 2 : Horseradish peroxidase (reducing conditions) at 0.25 µg

Lane 3 : Horseradish peroxidase (non-reducing conditions) at 1 µg

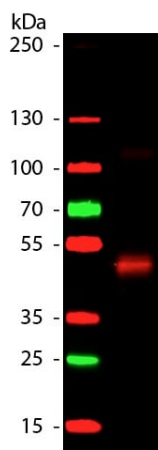
Lane 4 : Horseradish peroxidase (non-reducing conditions) at 0.25 µg

Secondary

All lanes : Dylight 649 conjugated Donkey anti Goat at 1/10000 dilution

Predicted band size: 39 kDa

Reduced samples of purified Horseradish peroxidase contained 4% BME and were boiled for 5 minutes.



Western blot - Anti-HRP antibody (ab181658)

Anti-HRP antibody (ab181658) at 1/1000 dilution + Peroxidase at 0.05 µg

Secondary

DyLight™ 649 goat secondary at 1/20000 dilution

Predicted band size: 39 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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