

## Product datasheet

# Anti-Biotin antibody ab53494

★★★★★ [1 Abreviews](#) [47 References](#) [1 Image](#)

### Overview

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<b>Product name</b>	Anti-Biotin antibody
<b>Description</b>	Rabbit polyclonal to Biotin
<b>Host species</b>	Rabbit
<b>Specificity</b>	Reacts with free biotin and biotinylated antibody and proteins
<b>Tested applications</b>	<b>Suitable for:</b> WB, Competitive ELISA, IP, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Species independent
<b>Immunogen</b>	Chemical/ Small Molecule corresponding to Biotin conjugated to keyhole limpet haemocyanin.
<b>General notes</b>	<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&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 6.00 Constituents: 50% Glycerol, PBS
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Affinity purified with d-Biotin-agarose beads
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab53494 in the following tested applications.

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

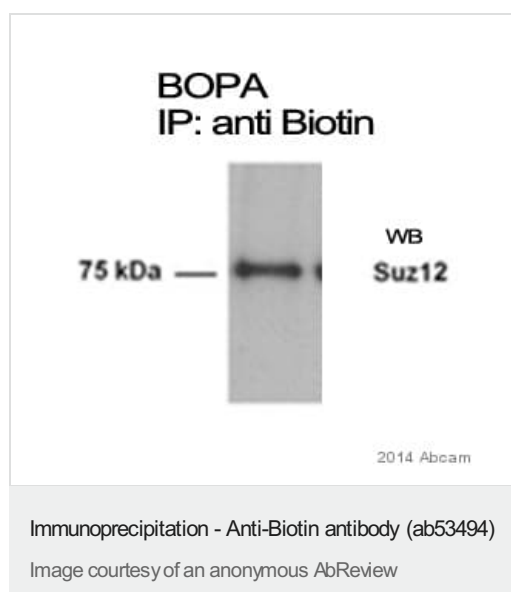
Application	Abreviews	Notes
WB		Use at an assay dependent dilution. Predicted molecular weight: 1 kDa.
Competitive ELISA		Use at an assay dependent dilution. (sensitivity: 0.01 ng/mL).
IP	★★★★★ (1)	Use at an assay dependent dilution.
ICC/IF		Use at an assay dependent dilution.

## Target

### Relevance

Biotin is a water soluble vitamin, generally classified as a B complex vitamin, also called vitamin B4. After the initial discovery of biotin, nearly forty years of research were required to establish it as a vitamin. Biotin is required by all organisms but can only be synthesized by bacteria, yeasts, molds, algae, and some plant species. Biotin is required as prosthetic group of enzymes involved in incorporation of carbon dioxide into organic compounds. Biotin has a MW of 244 Da.

## Images



RWP1 cells were lysed with Polysomal Lysis Buffer and diluted in binding buffer (20 mM Hepes pH 7.6, 150 mM KCl, 3 mM MgCl<sub>2</sub>, 10% glycerol, 3 mg/ml BSA, 0.2 Triton X-100, 20 µg/ml poly dI-dC, 1 mM DDT, plus protease and RNase inhibitors). Pre-clearing was performed by incubating with protein G-agarose blocked with salmon sperm (1 mg/mL) and mouse IgG (10 µg/mL). After pre-clearing, samples (500 µg) were incubated 4 hours in binding buffer with the DNA-biotinylated probes (2 µg) and antibody against biotin (20 µg/mL) in a final volume of 1 mL. Samples were pulled-down with protein G-agarose, washed with binding buffer supplemented with 0.1% Tween-20 and analyzed by Western Blot for Suz12.

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

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