

## Product datasheet

# Anti-Biotin antibody [Hyb-8] - BSA and Azide free ab234026

Recombinant

[7 Images](#)

### Overview

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<b>Product name</b>	Anti-Biotin antibody [Hyb-8] - BSA and Azide free
<b>Description</b>	Mouse monoclonal [Hyb-8] to Biotin - BSA and Azide free
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Species independent
<b>Immunogen</b>	Chemical/ Small Molecule corresponding to Biotin. (Biotinylated sheep immunoglobulin)
<b>Positive control</b>	WB: Human, Mouse, and Rat retina lysates. IHC-P: Human, Mouse, and Rat retina tissue. Flow-Cyt: Mouse PBMC.
<b>General notes</b>	<p>This product has switched from a hybridoma to recombinant production method on 4th April 2024.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.20 Constituent: 100% PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	Hyb-8
<b>Isotype</b>	IgG1

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab234026 in the following tested applications.

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

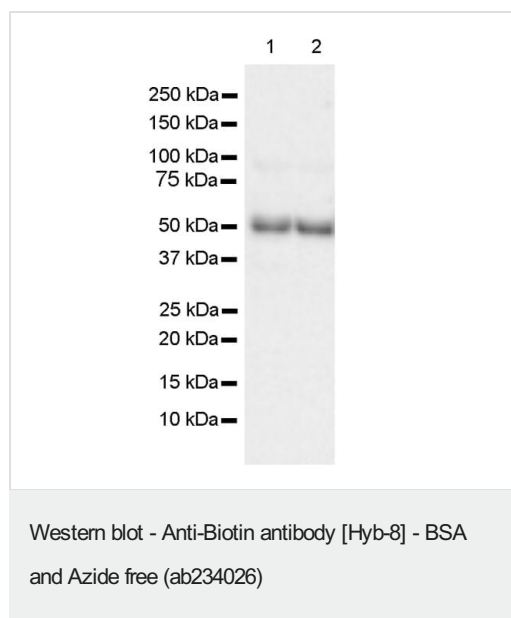
Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration.

## 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



**All lanes :** Anti-Biotin antibody [Hyb-8] (**ab201341**) at 1/1000 dilution

**Lane 1 :** Human nerve lysate

**Lane 2 :** Human lower limb nerve lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Anti-mouse IgG for IP (HRP) (**ab131368**) at 1/1000 dilution

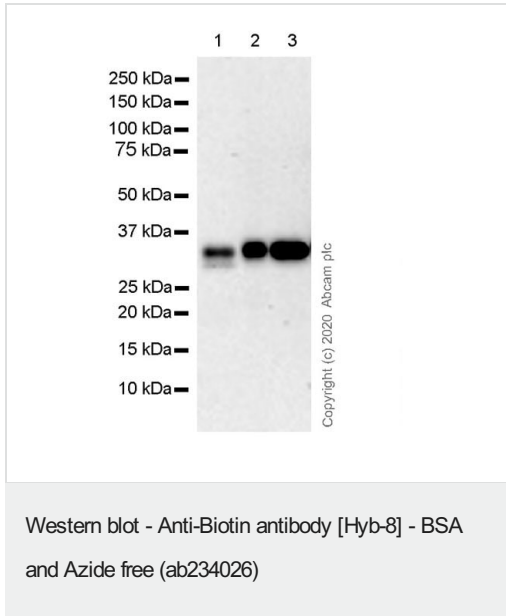
**Observed band size:** 58 kDa

**Exposure time:** 103 seconds

This data was developed using **ab201341**, the same antibody clone in a different buffer formulation.

Western Blot analysis of specific lysates using anti-Peripherin antibody (**ab246502**) Rabbit mAb (Biotinylated) followed by Anti-biotin (**ab201341**) Mouse mAb and anti-mouse IgG, HRP linked Antibody **ab131368**.

Blocking buffer and concentration: 5% NFDm/TBST.



**All lanes** : Anti-Biotin antibody [Hyb-8] (**ab201341**) at 1/1000 dilution

**Lane 1** : Mouse eyeball tissue lysate

**Lane 2** : Rat eyeball tissue lysate

**Lane 3** : Mouse C57 P20 retina

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes** : Anti-mouse IgG for IP (HRP) (**ab131368**) at 1/1000 dilution

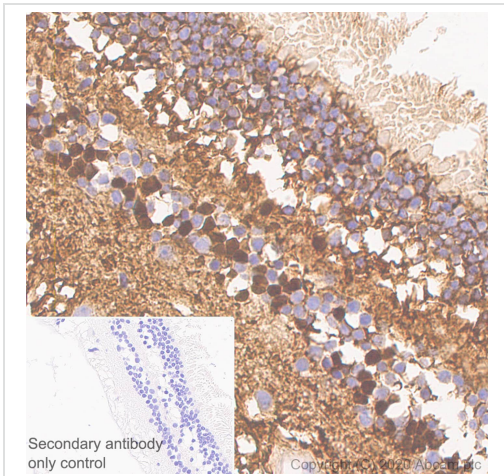
**Observed band size:** 36 kDa

**Exposure time:** 3 minutes

This data was developed using **ab201341**, the same antibody clone in a different buffer formulation.

Western Blot analysis of specific lysates using anti-CRALBP antibody(**ab243664**) Rabbit mAb (Biotinylated) followed by Anti-biotin (**ab201341**) Mouse mAb and anti-mouse IgG, HRP linked Antibody **ab131368**.

Blocking buffer and concentration: 5% NFDm/TBST.

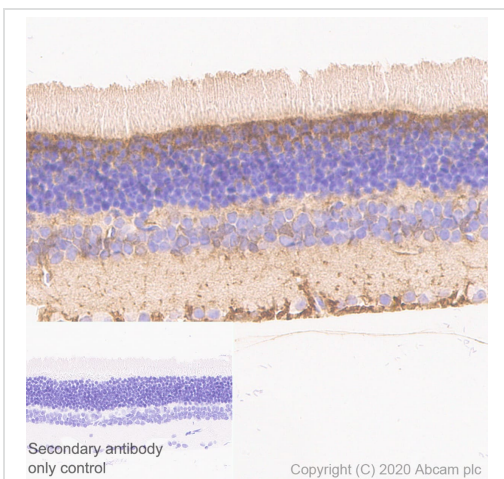


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Biotin antibody [Hyb-8] - BSA and Azide free (ab234026)

This data was developed using [ab201341](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human retina tissue labeling Biotin with [ab201341](#) at 1/2000 dilution followed by LeicaDS9800 (Bond™ Polymer Refine Detection). The section was incubated with biotinylated Anti-CRALBP antibody [EPR23448-119] (incubate for 30 mins at room temperature) followed by [ab201341](#) (incubate for 30 mins at room temperature).

Recommend to treat the tissues with Biotin Assay Blocking Kit to remove the endogenous biotin before adding antibodies. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

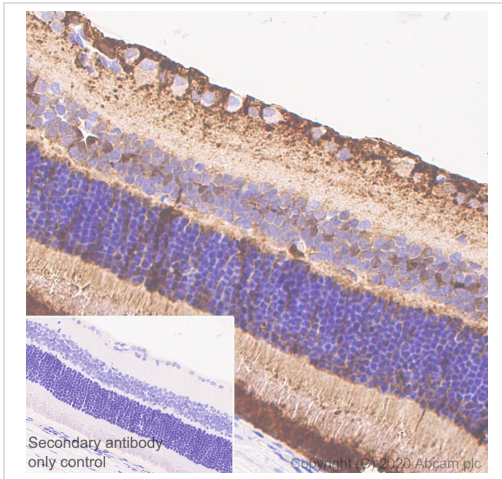


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Biotin antibody [Hyb-8] - BSA and Azide free (ab234026)

This data was developed using [ab201341](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse retina tissue labeling Biotin with [ab201341](#) at 1/2000 dilution followed by LeicaDS9800 (Bond™ Polymer Refine Detection). The section was incubated with biotinylated Anti-CRALBP antibody [EPR23448-119] (incubate for 30 mins at room temperature) followed by [ab201341](#) (incubate for 30 mins at room temperature) and followed by mouse IgG1 antibody ([ab125913](#), 1:1000) for 8 mins.

Recommend to treat the tissues with Biotin Assay Blocking Kit to remove the endogenous biotin before adding antibodies. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

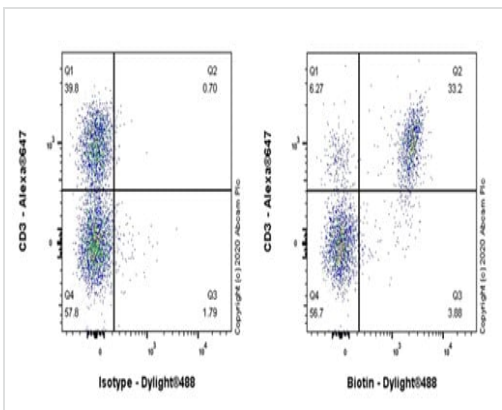


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Biotin antibody [Hyb-8] - BSA and Azide free (ab234026)

This data was developed using [ab201341](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Rat retina tissue labeling Biotin with [ab201341](#) at 1/2000 dilution followed by LeicaDS9800 (Bond™ Polymer Refine Detection). The section was incubated with biotinylated Anti-CRALBP antibody [EPR23448-119] (incubate for 30 mins at room temperature) followed by [ab201341](#) (incubate for 30 mins at room temperature) and followed by mouse IgG1 antibody ([ab125913](#), 1:1000) for 8 mins.

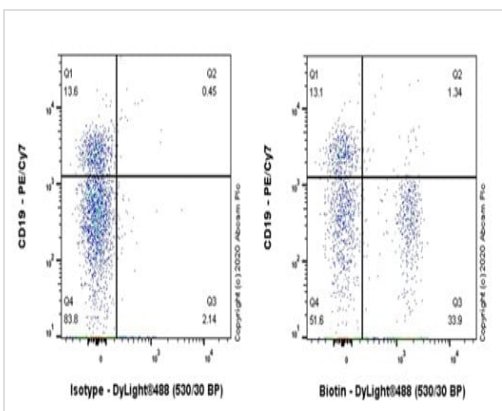
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Flow Cytometry - Anti-Biotin antibody [Hyb-8] - BSA and Azide free (ab234026)

This data was developed using [ab201341](#), the same antibody clone in a different buffer formulation.

Mouse PBMC were blocked with 2.4G2 supernatant at 4°C for 15min, labeled with Rat anti-mouse CD4 conjugated to Biotin at 4°C for 30min, then stained with mouse IgG or [ab201341](#) at 4°C for 30min followed by staining with Goat F(ab')<sub>2</sub> Anti-Mouse IgG - Fc (DyLight® 488), pre-adsorbed ([ab98736](#), 1/2000), PE/Cy7 conjugated anti-mouse CD19 Antibody and Alexa Fluor® 647 conjugated anti-mouse CD3 Antibody at 4°C in the dark. Prior to data acquisition, 7-AAD staining was performed to exclude dead cells.



Flow Cytometry - Anti-Biotin antibody [Hyb-8] - BSA and Azide free (ab234026)

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

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