VeriBlot for IP Detection Reagent (HRP) ab131366

Overview

Product name
VeriBlot for IP Detection Reagent (HRP)

Conjugation
HRP

Tested applications
Suitable for: WB

General notes
VeriBlot for IP Detection Reagents are immunoblotting reagents that enable the trouble-free detection of immunoblotted target protein bands, without interference from denatured IgG. This allows to detect the (co-)immunoprecipitated protein without masking by the IgG heavy (50 kDa) and light chains (25 kDa). In general, this interference tends to originate from secondary antibodies which recognize primary antibodies released with the antigen during the immunoprecipitation procedure or endogenous IgGs from the lysate itself. VeriBlot for IP detection reagents only recognize native (non-reduced) antibodies and therefore the detection of heavy and light chains is highly minimized, if the immunoprecipitate is fully reduced.

Number of blots:
At least 20 (based on a 1:200 dilution in 5 ml milk).

Important protocol notes:
1. The VeriBlot for IP Detection Reagent (HRP) detects the following IgG polyclonal and monoclonal antibodies:

<table>
<thead>
<tr>
<th>Species</th>
<th>Monoclonal Isotype(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bovine</td>
<td>IgG2</td>
</tr>
<tr>
<td>Goat</td>
<td>IgG2</td>
</tr>
<tr>
<td>Human</td>
<td>IgG1, IgG2, IgG4</td>
</tr>
<tr>
<td>Mouse</td>
<td>IgG2a, IgG2b, IgG3 (IgG1 affinity may or may not be strong so it should be empirically tested)</td>
</tr>
<tr>
<td>Rat</td>
<td>IgG2C</td>
</tr>
<tr>
<td>Rabbit</td>
<td>Total IgG</td>
</tr>
<tr>
<td>Sheep</td>
<td>IgG2</td>
</tr>
</tbody>
</table>

2. The VeriBlot for IP Detection Reagent (HRP) preferentially detects the non-reduced form over the reduced, SDS-denatured forms.

3. IP sample should be completely reduced/denatured before loaded onto a western blot. Boil samples for 5-10 minutes in SDS sample buffer with a increase in SDS amount if required.
4. Milk should be used as the blocking protein for the immunoblot.

**Western blot and IP resources:**
- [Western blot a beginner’s guide](#)
- [IP protocol](#)
- [IP troubleshooting tips](#)

**Properties**

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Store at +4°C.</td>
</tr>
</tbody>
</table>
| Storage buffer | Preservative: 0.1% Proclin  
Constituent: 1% MOPS  |

**Applications**

Our [Abpromise guarantee](#) covers the use of ab131366 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</table>
| WB          | 🟢🟢🟢🟢    | 1/40 - 1/4000.  
The dilution will depend on the sensitivity of the HRP substrate. The dilution range recommended is 1:40 - 1:4000. Based on a 1:200 dilution (25 µL) in 5 ml milk researchers can perform 20 western blots. This product is recommended for the western blot detection of IP samples. Make sure the lysates are reduced and denatured completely.  |

**Images**

[Immunoprecipitating Brd4 in human HEK293 whole cell lysate.](#) 1000µg of cell lysate was incubated with primary antibody (1µg/mg in 50 mM Tris) and matrix (Protein G) for 16 hours at 4°C. For western blotting a HRP-conjugated Veriblot for IP Detection Reagent (ab131366) (1/10000) was used to confirm successful immunoprecipitation.

[Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366)](#)

This image is courtesy of an anonymous Abreview.
**ab32371** immunoprecipitating Bak in human HCT116 p53-/- whole cell lysate. 100µg of cell lysate was incubated with primary antibody (1/100) and matrix (Protein A/G) for 4 hours at 4°C. For western blotting a HRP-conjugated Veriblot for IP Detection Reagent (ab131366) (1/2000) was used to confirm successful immunoprecipitation.

**ab6148** Immunoprecipitating IRAK2 in human HEK293 whole cell lysate. 1000µg of cell lysate was incubated with primary antibody (1 µg/mg) and matrix (Protein G) for 16 hours at 4°C. For western blotting a HRP-conjugated Veriblot for IP Detection Reagent (ab131366) (1/10000) was used to confirm successful immunoprecipitation.
**IP sample preparation:** Histone H3 (mono methyl K9) was immunoprecipitated using 0.5mg Hela whole cell extract, 5µg of Rabbit polyclonal to Histone H3 (mono methyl K9) and 50µl of protein G magnetic beads (+). No antibody was added to the control (-). The antibody was incubated under agitation with Protein G beads for 10min, Hela whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation. Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C;

**Western blot conditions:** 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab9045.

**Detection:** VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution.

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