

## Datasheet: STAR209PT

<b>Description:</b>	TidyBlot WESTERN BLOT DETECTION REAGENT:HRP
<b>Name:</b>	TidyBlot
<b>Format:</b>	HRP
<b>Product Type:</b>	Accessory Reagent
<b>Quantity:</b>	50 µl

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting (1)	▪			1/40 - 1/400

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures.

**(1) TidyBlot Western Blot Detection Reagent:HRP preferentially binds to the native antibody used during the Western Blot procedure rather than the SDS-denatured/reduced form present in lysates/immunoprecipitates. Best results are therefore achieved by denaturing the immunoprecipitate/lysate fully (consider the duration of boiling the sample to reduce IgG disulphide bonds and the type/concentration of reducing agent).**

#### Preservative Stabilisers

<0.06% ProClin 300

#### Product Information

TidyBlot Western Blot Detection Reagent:HRP specifically binds to native (non-reduced) antibodies. In contrast to conventional secondary antibodies, TidyBlot therefore enables the detection of immunoblotted target protein bands without interference from denatured IgG. Sources of denatured IgG include endogenous IgGs present in cell/tissue lysate and primary antibodies released from beads during immunoprecipitation experiments. The latter are particularly obstructive when detecting of (co-)immunoprecipitated proteins as IgG heavy (~50 kDa) and light chains (~25 kDa) may mask the protein(s) of interest.

***N.B. Reactivity of TidyBlot Western Blot Detection Reagent:HRP to mouse IgG1 can be variable. Bio-Rad recommend customers assess compatibility with their IgG1 antibodies via dot blot assay.***

#### Instructions For Use

***When using a 1/200 dilution (25 µl in 5 ml milk protein), TidyBlot Western Blot Detection Reagent:HRP is sufficient to perform approximately 2 (STAR209PT), 20***

**(STAR209P) or 40 (STAR209PA) mini Western Blots.**

1. Dilute primary antibody (see technical advice section) to appropriate concentration in blocking buffer
2. Incubate blot with primary antibody
3. Wash blot
4. Dilute TidyBlot Western Blot Detection Reagent:HRP **For best results, optimize dilutions for each experiment**
5. Incubate blot with TidyBlot Western Blot Detection Reagent:HRP
6. Wash blot
7. Prepare and add HRP substrate according to manufacturers instructions
8. Develop blot

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**References**

1. Inoue, S.*et al.* (2019) Drebrin-like (Dbnl) Controls Neuronal Migration via Regulating N-Cadherin Expression in the Developing Cerebral Cortex. [J Neurosci. 39 \(4\): 678-91.](#)
2. Kråkenes, T. *et al.* (2019) CDR2L Is the Major Yo Antibody Target in Paraneoplastic Cerebellar Degeneration. [Ann Neurol. 86 \(2\): 316-21.](#)
3. Wu, J. *et al.* (2019) Androgen receptor SUMOylation regulates bone mass in male mice. [Mol Cell Endocrinol. 479: 117-122.](#)
4. Welkenhuysen, N.*et al.* (2018) Robustness of Nutrient Signaling Is Maintained by Interconnectivity Between Signal Transduction Pathways. [Front Physiol. 9: 1964.](#)
5. Zuliani, I. *et al.* (2021) The Dysregulation of OGT/OGA Cycle Mediates Tau and APP Neuropathology in Down Syndrome. [Neurotherapeutics. 18 \(1\): 340-63.](#)

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**Storage**

Store at +4°C. DO NOT FREEZE.  
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch.

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**Acknowledgements**

ProClin is a trademark of The Dow Chemical Company (“Dow”) or an affiliated company of Dow.

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**Health And Safety Information**

Material Safety Datasheet documentation #10581 available at:  
<https://www.bio-rad-antibodies.com/SDS/STAR209PT>  
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**Regulatory**

For research purposes only.

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**Technical Advice**

**Note: If using mouse IgG<sub>1</sub>, perform a dot blot to determine compatibility. TidyBlot Western Blot Detection Reagent:HRP might not detect mouse IgG<sub>1</sub>. TidyBlot Western Blot Detection Reagent:HRP detects the IgG polyclonal and monoclonal antibodies listed below:**

<b>Species</b>	<b>Monoclonal Isotype(s)</b>	<b>Polyclonal</b>
<b>Bovine</b>	<b>IgG2</b>	<b>Compatible</b>
<b>Goat</b>	<b>IgG2</b>	<b>Compatible</b>
<b>Human</b>	<b>IgG1, IgG2, IgG4</b>	<b>Compatible</b>

**IgG2a, IgG2b, IgG3**  
**IgG1: affinity for IgG1**  
**varies and may not be**  
**strong**

<b>Mouse</b>	Affinity should therefore be tested on an antibody by antibody basis by performing dot blot analysis.	<b>Compatible</b>
<b>Rat</b>	<b>IgG2c</b>	<b>Compatible</b>
<b>Rabbit</b>	<b>Total IgG</b>	<b>Compatible</b>
<b>Sheep</b>	<b>IgG2</b>	<b>Compatible</b>

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## Related Products

### Recommended Useful Reagents

[RAT ANTI MOUSE KAPPA LIGHT CHAIN:HRP \(MCA152P\)](#)

[MOUSE ANTI RABBIT LIGHT CHAIN:HRP \(MCA6003P\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
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