

Datasheet: STAR209PT

Description:	TidyBlot WESTERN BLOT DETECTION REAGENT:HRP
Name:	TidyBlot
Format:	HRP
Product Type:	Accessory Reagent
Quantity:	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.

	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

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.](#)

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.

Guarantee

12 months from date of despatch.

Acknowledgements

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

Health And Safety Information

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

Regulatory

For research purposes only.

Technical Advice

Note: If using mouse IgG₁, perform a dot blot to determine compatibility. TidyBlot Western Blot Detection Reagent:HRP might not detect mouse IgG₁. TidyBlot Western Blot Detection Reagent:HRP detects the IgG polyclonal and monoclonal antibodies listed below:

Species	Monoclonal Isotype(s)	Polyclonal
Bovine	IgG2	Compatible
Goat	IgG2	Compatible
Human	IgG1, IgG2, IgG4	Compatible

	IgG2a, IgG2b, IgG3	
	IgG1: affinity for IgG1 varies and may not be strong	
Mouse	Affinity should therefore be tested on an antibody by antibody basis by performing dot blot analysis.	Compatible
Rat	IgG2c	Compatible
Rabbit	Total IgG	Compatible
Sheep	IgG2	Compatible

Related Products

Recommended Useful Reagents

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

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M423131:231006'

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