

Datasheet: STAR209PA

BATCH NUMBER 160043

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|----------------------|---|
| Description: | TidyBlot WESTERN BLOT DETECTION REAGENT:HRP |
| Name: | TidyBlot |
| Format: | HRP |
| Product Type: | Accessory Reagent |
| Quantity: | 1 ml |

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 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.* (2020) The Dysregulation of OGT/OGA Cycle Mediates Tau and APP Neuropathology in Down Syndrome. [Neurotherapeutics. Nov 30 \[Epub ahead of print\].](#)

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™ 300 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/STAR209PA>
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 IgG2a, IgG2b, IgG3 IgG1: affinity for IgG1 varies and may not be strong | Compatible |
| 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 \(MCA6003P\)](#)

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