

## TidyBlot WESTERN BLOT DETECTION REAGENT:HRP

Cat # NB-47-06029-1ML size: 1ml

### 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.

	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. Neo-Biotech 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 (NB-47-06028-500UL) or 40 (NB-47-06029-1ML) 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**

4. Incubate blot with TidyBlot Western Blot Detection Reagent:HRP
5. Wash blot
6. Prepare and add HRP substrate according to manufacturers instructions
7. Develop blot

## References

1. Inoue, S.*et al.* (2019) Drebrin-like (Dbr1) 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.

### Regulatory

For research purposes only

### 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:**

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.	
Rat	IgG2c	Compatible
Rabbit	Total IgG	Compatible
Sheep	IgG2	Compatible