

To order contact:  
306, Aggarwal City Mall, Opposite M2K Pitampura,  
Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111,  
42208222  
Mobile: +91-9810521400 Fax: +91-11-42208444  
Email: [customerservice@atzlabs.com](mailto:customerservice@atzlabs.com)  
Web: [www.atzlabs.com](http://www.atzlabs.com)



## Western Blot Recycling Kit

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### Re-use Old or New Western Blots using ADI's Western Blot Recycling Kit

Strip antibodies at RT; No heating required

Just soak blots in stripping solution for 10-15 min

No mercaptoethanol; No pungent smell

Blots are reusable within 15-60 min

Blots can be probed with the same or different antibodies

#### Western Blot Recycling Kit Cat #90100 Sufficient for 30-50 Mini-Blots

Western blotting is a commonly used technique to study protein structure and functions. Typically, protein samples are electrophoresed on SDS-PAGE and transferred to solid support (nitrocellulose or nylon-based membranes) for probing with antibodies. Unlike advances made in similar techniques in probing nucleic acids (northern and southern blotting) that allow reuse of blots, it has been difficult to reuse blots for Western blotting. Recycling of protein blots offers many advantages:

- When protein samples are available in limited quantities, difficult to obtain or expensive
- When samples are to be analyzed with different antibodies under identical conditions, e.g., subtype or isoform specific antibodies
- When a blot gives unexpected results and needs confirmation with the same or a different antibody
- When a blot is mistakenly incubated with wrong antibody
- It is simply more economical and less time consuming to reuse the same blot.

#### List of publications:

Humphreys 2002, *Endocrinology* 143, 3641| Used Nitrocellulose| Stripped 4 times and reprobbed with other antibodies

Dwivedi 2002, *JBC* 277, 29643, Used Nitrocellulose, Stripped phosphoantibodies and reprobbed with other antibodies

McClelland 2002, *J Appl Physiol*, 2002| 92: 1573, Used PVDF, stripped and reprobbed with various MCTs antibodies

Jackson 2001, *J Immunol* 166, 952-958| Used Nitrocellulose| primary antibody stripped and reprobbed with beta-actin

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