Engibody® BIOTECHNOLOGY

PRODUCT DATA SHEET

RAB-IP™ Anti-rabbit IgG for IP (HRP)

This product is only for research applications, not for diagnostic or therapeutic use.

Catalog Number: IF9203 **Size:** 100 µL (1mg/mL)
Store at: –20°C

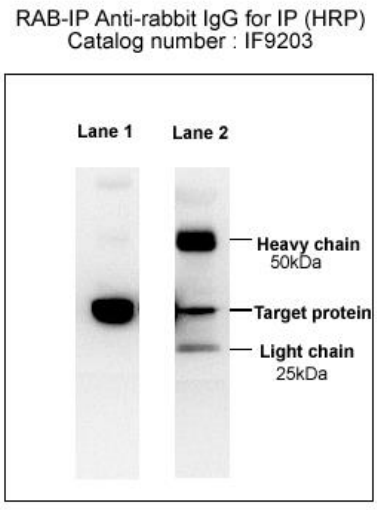
Background

RAB-IP™ Anti- rabbit IgG for IP (HRP Conjugated) secondary antibody is western blotting reagents that enable the trouble-free detection of western blotted target protein bands from upstream IP/CoIP, without interference of the heavy chain and the light chain from denatured IgG (IP primary antibody, an antibody comprises two light chains and two heavy chains). This allows to detect the (co-)immunoprecipitated protein without interference of the IgG heavy chain (50 kDa) and the light chains (25 kDa).

RAB-IP™ Anti- rabbit IgG for IP (HRP Conjugated) only recognize native (non-reduced) primary antibodies (from rabbit) and therefore the bands of heavy chain and light chains are highly minimized, if the immunoprecipitated antigen-antibody complex is fully reduced and denatured before downstream WB.

Description:	RAB-IP™ Anti- rabbit IgG (native antibody specific) for IP (HRP Conjugated)
Specificity:	This secondary antibody is specific to native rabbit polyclonal/monoclonal antibody, and do not recognize denatured heavy chain or light chain of rabbit IgG antibody
Reactivity:	Rabbit
Tested applications:	**WB**: 1/1000-1/2000. Optimal dilutions should be determined by the end user.
Host:	Goat
Clonality:	Monoclonal, clone number: 3B8
Isotype:	Goat IgG
Conjugation	Horseradish Peroxidase (HRP)
Immunogen:	The antibody was developed in goat using the nature rabbit IgG as the immunogen and then develop monoclonal antibody.
Storage:	Store at -20°C, Avoid freeze / thaw cycle. Do not aliquot the antibody.
Expiration Date:	Expires one year from date of receipt when stored according to the instructions
Formulation:	The antibody in 10 mM phosphate buffered saline (PBS), pH 7.4, 50% glycerol with 1% (w/v) BSA as a stabilizer and 0.01% (w/v) thimerosal as preservative.

Figure 1. RAB-IP™ Anti- rabbit IgG for IP (HRP) secondary antibody images: Western blotting.



IP conditions: target protein TBP was immunoprecipitated from 0.5 mL cell lysate of $1x10^7$ Hela cells with 5 µg anti-human TBP rabbit monoclonal antibody and protein A/G agarose beads (Engibody, IF0001).

WB conditions:
the immunoprecipitated antigen-antibody complex should be boiled for 5-10 minutes in SDS sample buffer, make sure that the complex is fully reduced and denatured before downstream WB. then electrophoresis, transferred to a PVDF membrane, and incubate with an anti- TBP rabbit monoclonal antibody.

Secondary Antibody Detection:
Lane 1: Detection with RAB-IP™ Anti-rabbit IgG for IP (HRP) (CAT: IF9203)
The heavy chain and light chain can not be seen, confirming that although the immunoprecipitating heavy chains and light chains are present, detects only native antibody.
Lane 2: Detection with a traditional goat anti-rabbit IgG (H&L) (HRP) secondary antibody (CAT: AT0097)

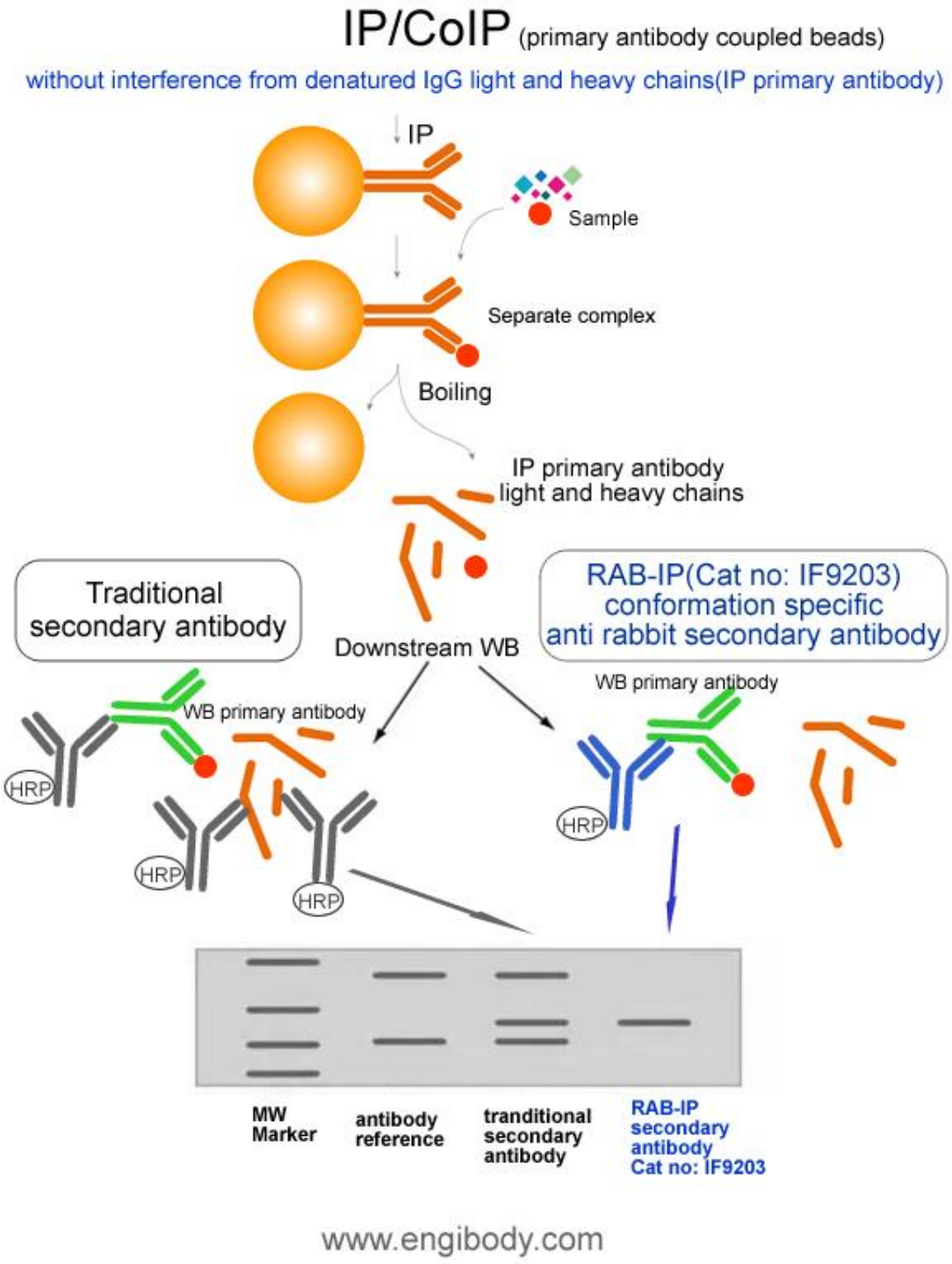


Figure 2. A schematic representation of IP-WB workflow by using RAB-IP™ secondary antibody.

Using primary antibody coupled beads

RAB-IP™ Anti-rabbit IgG for IP (HRP Conjugated) only recognize native (non-reduced) primary antibodies (from rabbit) and therefore the bands of heavy chain and light chain are highly minimized, if the immunoprecipitated antigen-antibody complex is fully reduced and denatured before downstream WB.

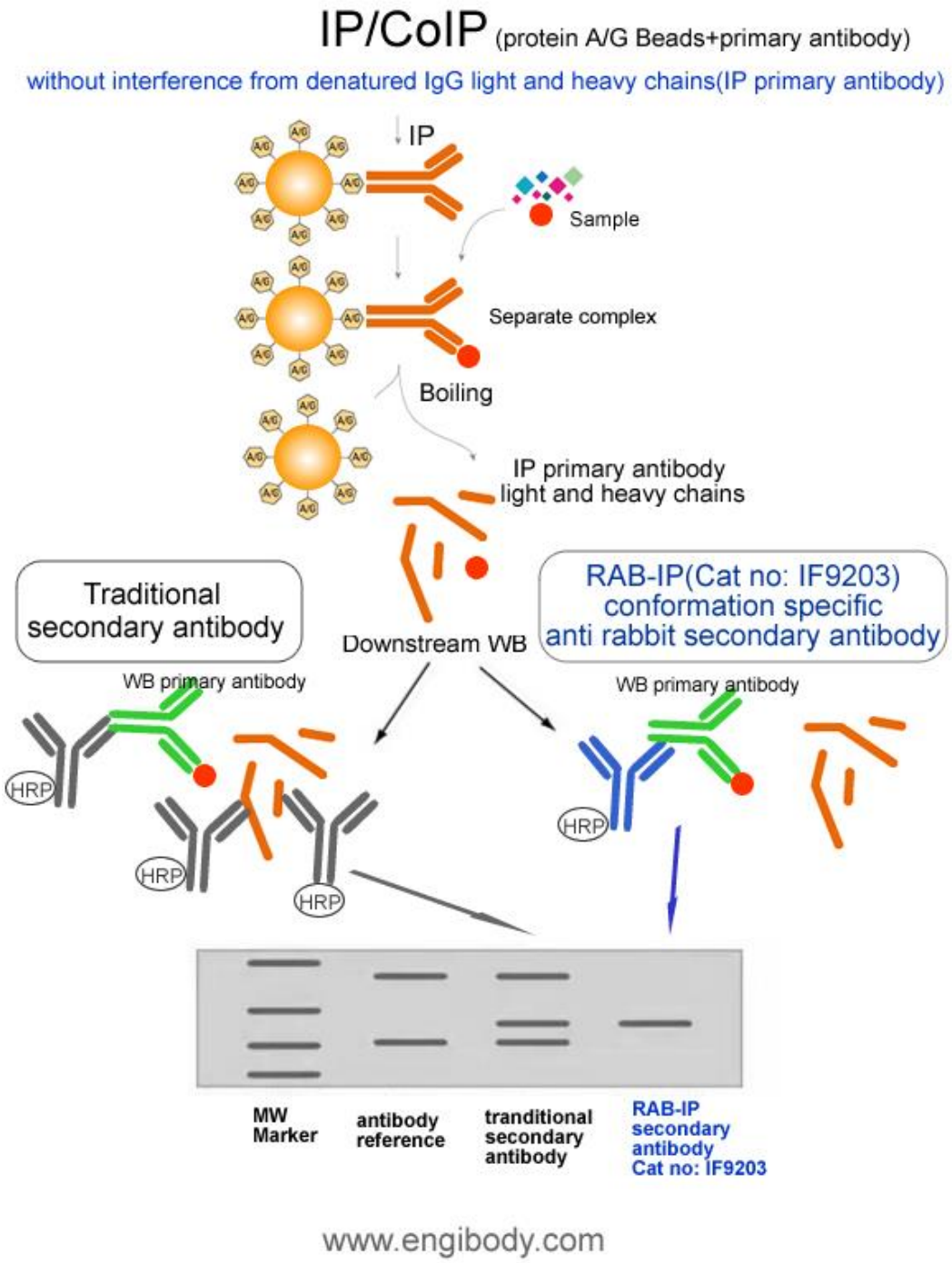


Figure 3. A schematic representation of IP-WB workflow by using RAB-IP™ secondary antibody.

Using protein A/G Beads + primary antibody

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Related products

Product	Cat. no.
MOU-IP™ Anti-mouse IgG for IP (HRP)	IF9204

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The Remark

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