Engibody® BIOTECHNOLOGY

PRODUCT DATA SHEET

MOU-IP™ Anti-mouse IgG for IP (HRP)

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

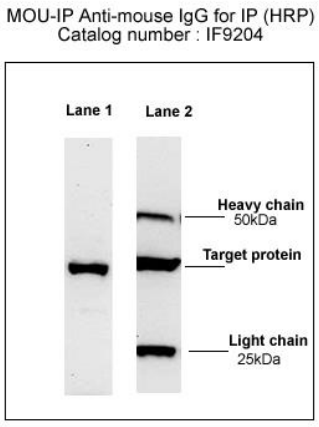
Catalog Number: IF9204 **Size:** 100 µL (1mg/mL)
Store at: –20°C

Background

MOU-IP™ Anti-mouse 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 from denatured IgG heavy chain and light chain (IP primary antibody, an antibody comprises two light chains and two heavy chains). This allows to detect the (co-)immunoprecipitated protein without interfering of the IgG heavy chain (50 kDa) and light chain (25 kDa).
MOU-IP™ Anti-mouse IgG for IP (HRP Conjugated) only recognize native (non-reduced) primary antibodies (from mouse) 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.

Description:	MOU-IP™ Anti-mouse IgG (native antibody specific) for IP (HRP Conjugated)
Specificity:	This secondary antibody is specific to native mouse polyclonal/monoclonal antibody, and do not recognize denatured heavy chain or light chain of mouse IgG antibody
Reactivity:	Mouse
Tested applications:	**WB**: 1/1000-1/2000. Optimal dilutions should be determined by the end user.
Host:	Goat
Clonality:	Monoclonal, clone number: 7G9
Isotype:	Goat IgG
Conjugation	Horseradish Peroxidase (HRP)
Immunogen:	The antibody was developed in goat using the nature mouse 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 PBS, pH 7.4, 50% glycerol with 10 mg/mL (1% w/v) BSA as a stabilizer and 0.01% (w/v) thimerosal as preservative.

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



IP sample preparation: target protein (PCNA) was immunoprecipitated from 0.5 mL cell lysate of $1x10^7$ Jurkat cells with 5 µg anti-human PCNA mouse 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 with an increase in SDS amount if required, 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- PCNA mouse monoclonal antibody.

Secondary Antibody Detection:
Lane 1: Detection with MOU-IP™ Anti-mouse IgG for IP (HRP) (CAT: IF9204)
The heavy chain and light chain can not be seen, confirming that although the immunoprecipitating heavy chain and light chain are present, detects only native antibody.
Lane 2: Detection with a traditional goat anti-mouse IgG (H&L) (HRP) secondary antibody (CAT: AT0098)

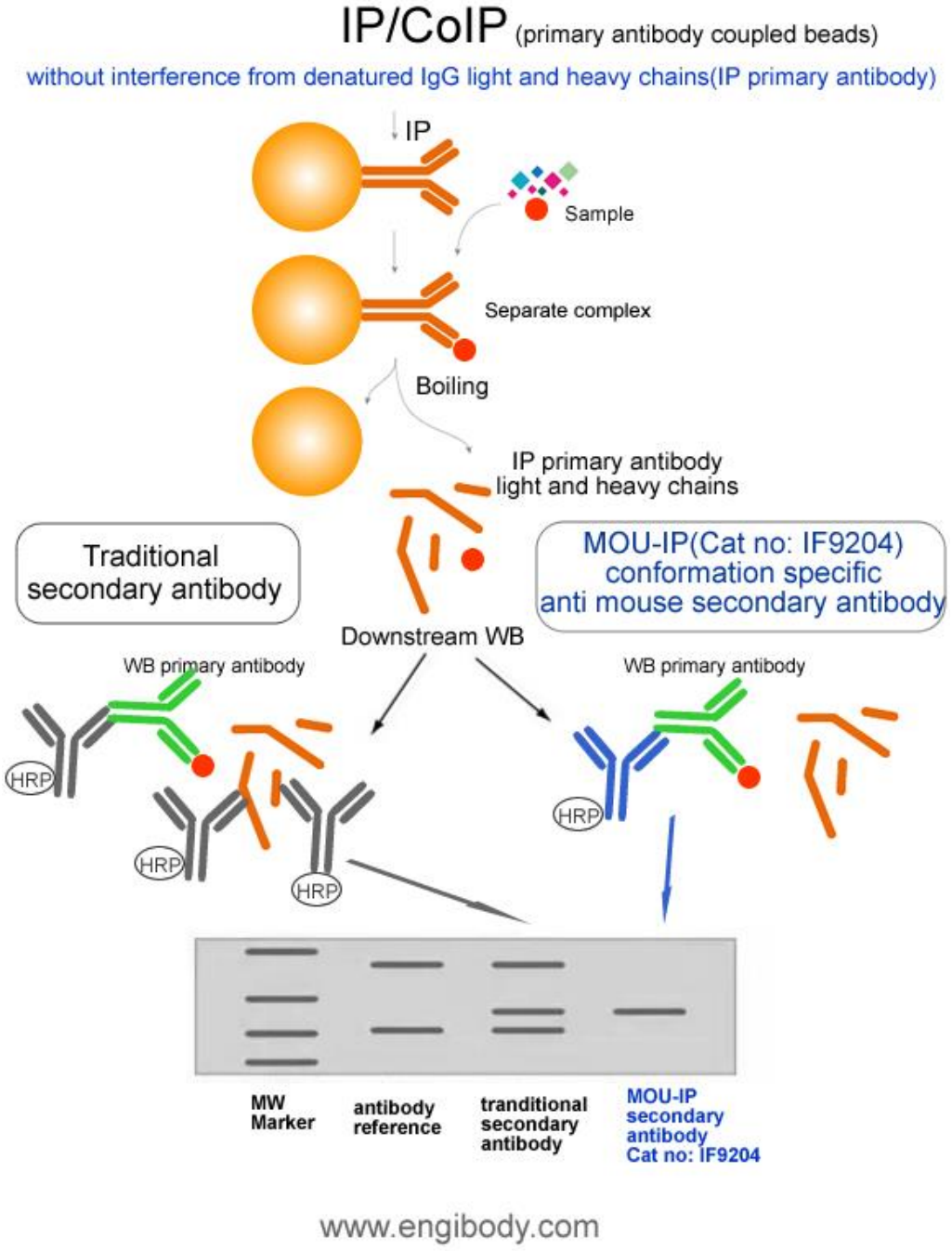


Figure 2. A schematic representation of IP-WB workflow by using MOU-IP™ secondary antibody.

Using primary antibody coupled beads

MOU-IP™ Anti-mouse IgG for IP (HRP Conjugated) only recognize native (non-reduced) primary antibodies (from mouse) 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.

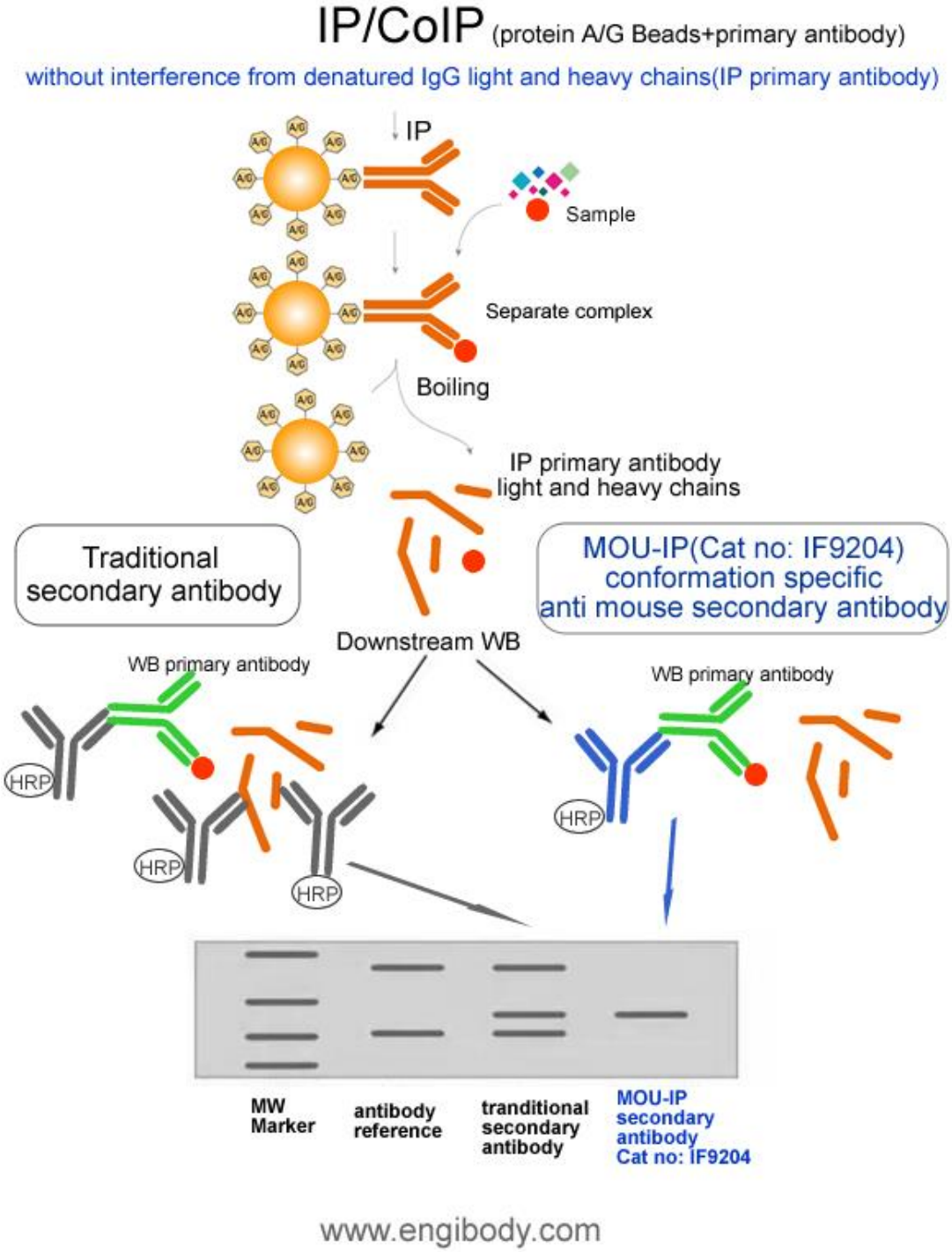


Figure 3. A schematic representation of IP-WB workflow by using MOU-IP™ secondary antibody.

Using protein A/G Beads + primary antibody

MOU-IP™ Anti-mouse IgG for IP (HRP Conjugated) only recognize native (non-reduced) primary antibodies (from mouse) 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.

Related products

Product	Cat. no.
RAB-IP™ Anti-rabbit IgG for IP (HRP)	IF9203

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The Remark

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