

Product information

SpeedAb Western Blot Kits are ideal for fast western blot workflows, cutting down protocol time of your experiment to ~2h, while also minimizing hands-on time.

The Kit combines two Proteintech products:

FlexAble HRP enables single step detection by fast & easy labeling of your primary antibody with a HRP conjugated FlexLinker. FlexAble labeling can be done in under 20 min, requires no additional material, works with any Rabbit (Proteintech #SW001), Mouse IgG1 (#SW002), Mouse IgG2a (#SW003), or Mouse IgG2b (#SW004) antibody from any supplier, in almost every buffer system, at any concentration.

Learn more about FlexAble: <https://www.ptglab.com/products/flexible-antibody-labeling-kits>

Blotting Accelerator reduces incubation times per antibody to ~15min without sacrificing result quality.

Learn more about the Accelerator: <https://www.ptglab.com/products/-TM-WB--PR20039.htm>

When combined, these two components facilitate easy, and reliable 1 step detection using rabbit antibodies in 15 minutes.

Product Codes for specific Kits:

(FlexLinkers are species specific and will only work with the correct IgG subtype)

(SW001) Rabbit

(SW002) Mouse IgG1

(SW003) Mouse IgG2a

(SW004) Mouse IgG2b

* Rapid 1-step detection

* No Blocking required

* No Secondary antibody needed

Components

Component	CatalogNo.	Size
FlexAble HRP Antibody Labeling Kit for Mouse IgG2a	KFA045	10 rxns
Blotting Accelerator	PR20039	100 mL

This Kit contains two components that speed up the Western blot workflow significantly by reducing the number of steps and antibody incubation time.

1. FlexAble HRP Antibody Conjugation Kit

(for Rabbit IgG / for Mouse IgG1, IgG2a, or IgG2b)

FlexAble HRP Antibody Labeling Kits are a fast and easy solution to label primary antibodies with HRP to facilitate 1-step detection without a secondary antibody.

The FlexLinker included in the Kits is specific to IgG species and subtype. Please make sure you use the correct Kit with your rabbit or mouse primary.

2. Blotting Accelerator

This ready-to-use solution is specifically used for membrane blocking and antibody dilution in Western blot experiments. Containing special organic compounds, the Blotting Accelerator is designed to significantly shorten the antibody incubation times to around 25 minutes or less per antibody, which will improve experimental efficiency, especially when combined with FlexAble HRP Kits.

Please refer to the product pages on our website if you want to learn more about each component of this kit.

20 rxns

Package

Storage

FlexAble HRP Kits: Store for 1 year at -20°C or for 6 months at 4°C upon receipt. Avoid exposure to light.

Blotting Accelerator: Store at 2-8°C for a year.

Sizing information

Sizing is based on a standardized antibody incubation volume of 5 mL Blotting Accelerator (single step detection) and a recommended dilution of 1:5000, with 0.5 µg of antibody used per Blot.

Example:

Recommended dilution of primary antibody: 1:5000

Volume of Accelerator per reaction: 5000 µL

Volume of antibody needed: 1 µL

Antibody concentration: 0.5 µg/µL

Amount of antibody to conjugate: 0.5 µg

Amount of FlexAble reactions needed: 1 rxn

Scale volumes & amounts according to recommended dilution of your primary antibody.

We recommend using a minimum of 1 µL FlexLinker, even if the antibody to be labeled is less than 0.5 µg (e.g. in cases when recommended dilution for WB is very high).

If you need help calculating your exact volumes, use our FlexAble Calculator

Tool: <https://www.ptglab.com/FlexCalc>

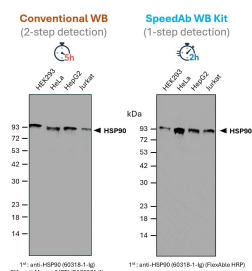
Cautions

1. If you use this product for the first time, you may need to titrate the antibody dilution ratio.

2. The blotting accelerator contains the preservative ProClin 300. Please wear a lab coat and disposable gloves.

3. This product is for laboratory scientific research use only.

Validation Data



SpeedAb WB Kit for detection of mouse IgG2a. (red) Classical Western blot detection of PCNA in lysates from different human cell lines. A primary anti-HSP90 antibody (mouse IgG2a) was used in combination with a secondary anti-mouse antibody (HRP), after blocking and incubation with antibodies for 1 h, respectively. The total time of ~... h includes SDS-PAGE, blotting, blocking, primary and secondary antibody incubation, and washing steps of the membrane. (blue) Detection of HSP90 in lysates from different human cell lines via SpeedAb WB Kit. The same primary anti-HSP90 antibody was labeled with FlexAble HRP (anti-mouse IgG2a) via a simple 10 min protocol, enabling a 1-step detection. The blotting accelerator speeds up binding of the antibody to the target protein, cutting the antibody incubation time to 15 min only and the total time including SDS-PAGE, blotting, antibody incubation and a final washing step to ~2 h.

For technical support and original validation data for this product please contact

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