

Product datasheet

Texas Red[®] Conjugation Kit ab102924

[2 References](#) [1 Image](#)

Overview

Product name	Texas Red [®] Conjugation Kit
Product overview	<p>Abcam's Texas Red Conjugation Kit provides a simple and quick process to conjugate your primary antibodies with Texas Red. TR is an orange/red fluorescent dye which has an excitation wavelength of 595nm and an emission wavelength of 613nm.</p> <p>The conjugated antibody can be used straight away in WB, ELISA, IHC etc</p> <p>Learn more about buffer compatibility, protein/secondary antibody conjugation and labelling chemistry in our FAQs.</p>

Notes	<p>The antibody to be labelled should be purified, in an appropriate buffer for conjugation and at a suitable concentration, as described in the protocol booklet. If not, consider using our antibody purification and concentration kits.</p>
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Pre-conjugation considerations

The purified antibody to be labeled should ideally be in 10-50mM amine-free buffer (e.g. MES, MOPS, HEPES, PBS), pH range 6.5 to 8.5. If the buffer is more concentrated or outside this pH range contact the technical support team.

Common non-buffering salts (e.g. sodium chloride), chelating agents (e.g. EDTA), and sugars have no effect on conjugation efficiency. Azide (0.02 to 0.1%) and BSA (0.1 to 0.5%) have little or no effect. Glycerol up to 50% has no effect.

Avoid buffer components that are nucleophilic, as these may react with the kit chemicals. Primary amines (e.g. amino acids or ethanolamine) and thiols (e.g. mercaptoethanol or DTT) fall within this class (Note: Tris-based buffers should be avoided). If your buffer contains primary amines and/or thiols, you should consider using our Concentration and Purification Kits ([ab102778](#) or [ab102784](#)).

Recommended amount and volume of antibody for optimal results

Pack size	Amount of antibody	Volume of antibody
Up to 20 µg	10-20 µg	4-10 µl
Up to 200 µg	100-200 µg	40-100 µl

Up to 2 mg	1-2 mg	400-1000 µl
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Antibody concentrations of 1-4 mg/ml generally give optimal results. For conditions outside the suggested ranges contact the technical support team.

Conjugation reaction

Before adding the antibody to the Texas Red mix, add 1 µl of Modifier reagent to each 10 µl of antibody to be labelled. Mix gently.

Remove cap from vial of Texas Red mix and pipette the antibody sample (with added Modifier) directly onto the lyophilized material. Resuspend gently by withdrawing and re-dispensing the liquid once or twice using a pipette.

Replace cap on the vial and leave standing in the dark at room temperature (20-25°C) for 3 hours. Conjugations can also be set up and left overnight; longer incubation times have no negative effect on the conjugate.

After incubating for 3 hours (or more), add 1 µl of Quencher reagent for every 10 µl of antibody used and mix gently. The conjugate can be used after 30 minutes. The conjugates do not require purification.

Storage of conjugates

Storage at 4°C is recommended for any conjugate. A preservative may be desirable for long-term storage. Other storage conditions may also be satisfactory. The best conditions for any particular conjugate must be determined by experimentation.

Disclaimer

Labeling of the antibody will not work if the conjugation blocks the active paratope. This situation is rare.

Tested applications

Suitable for: Conjugation

Properties

Storage instructions

Store at -20°C. Please refer to protocols.

Components	
Quencher reagent	1 x 1vial
Modifier reagent	1 x 1vial
Texas Red mix	1 x 1mg
Quencher reagent	1 x 1vial
Modifier reagent	1 x 1vial
Texas Red mix	3 x 100µg

Components	
Quencher reagent	1 x 1vial
Modifier reagent	1 x 1vial
Texas Red mix	3 x 10µg

Applications

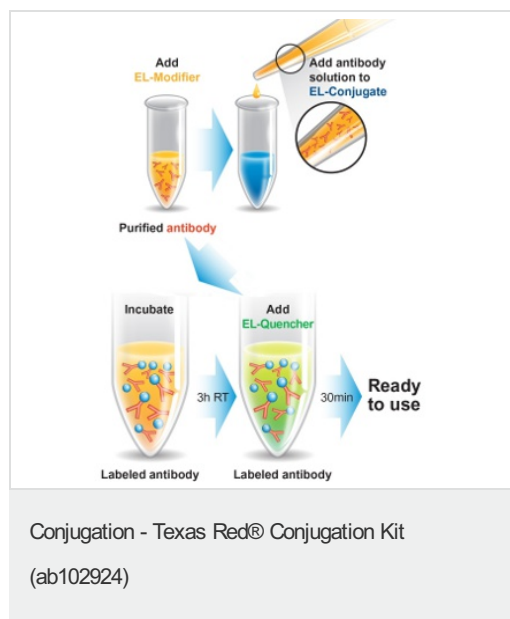
The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab102924 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Conjugation		Use at an assay dependent dilution.

Images



This illustration demonstrates a general procedure and will slightly vary dependent on the conjugate used.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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