Navinci

TF.MR.100 Naveni™ TriFlex Cell MR

General guidelines

- Reaction volume depends on sample size.
- Use best practices when pipetting to minimize reagent consumption.
- Thoroughly defrost all buffer mixtures at room temperature, vortex well before use.
- Centrifuge vials before pipetting.
- Vortex and spin-down all enzymes (1 and 2) before use.
- Keep enzymes on ice or a frozen cold block.
- Add enzymes right before adding reaction mix to sample.
 Reaction 2 contains a light-sensitive reagent. Always keep it protected from light.
- Remove excess washing buffer from samples before adding reagent.
- Do not allow slides/samples to dry.
- Preheat the humidity chamber before each step.
- Incubation times or temperatures other than those specified may compromise results.
- As with any product derived from biological sources, proper handling procedures should be used.
- Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
- Unused solutions should be disposed of according to local regulations.

Kit components

Box 1:

Storage: +4 to +8°C.

Material	Art.no	Amount
Block TF (1x)	NT.1.100.01	4 ml
Diluent 1 TF (1x)	NB.1.100.02	8 ml
Diluent 2 TF (1x)	NF.1.100.03	4 ml
Navenibody M TF (40x)	TF.1.100.04	100 µl
Navenibody R TF (40x)	TF.1.100.05	100 µl

Box 2:

FREEZE Storage: -25 to -15°C. Material Art.no Amount TF.2.100.06 Buffer 1 TF (5x) 800 µl Enzyme 1 TF (40x) NF.2.100.11 100 µl Buffer 2 TF (5x) TF.2.100.07 800 µl Enzyme 2 TF (40x) NF.2.100.15 100 µl

When stored as directed, the product is stable for at least 6 months after receipt.

Important:



Appropriate precautions should be taken to avoid antibody cross-contamination. Crosscontamination is the primary source of unspecific background due to the high sensitivity of the assay.

Avoid bulk washing methods when multiple antibodies are used.



For more information, or to place an order, visit www.navinci.se/products Email: contact@navinci.se

Instructions of use

1. Blocking

1.1 Add Block TF (1x) to the entire sample area (approximately 40 μ l/ cm2).

1.2 Incubate for 60 min at +37 °C in a preheated humidity chamber.

2. Primary antibody incubation

2.1 Use the provided **Diluent 1 TF (1x)** to dilute your primary antibodies.

2.2 Decant the Blocking Buffer and add enough of the antibody

working solution from step 2.1 to cover the sample area. 2.3 Incubate for 60 min at +37 °C or overnight at +4 °C in a humidity

chamber. $\bf{2.4}$ Decant the antibody solution, exchange wash twice, and wash slides for 15 min with 1x TBS-T** in a staining jar under gentle

agitation. Wash controls separately.

**TBS-T (Tris-buffered saline supplemented with 0.05% Tween 20)

3. Navenibody incubation

3.1 Dilute Navenibody M TF and Navenibody R TF 1:40 in Diluent 2 TF (1x).

3.2 Add enough of the Navenibody working solution from step 3.1 to cover the sample area.

3.3 Incubate for 60 min at +37 °C in a preheated humidity chamber. **3.4** Decant the solution, exchange wash twice, and wash slides for 15 min with 1x TBS-T in a staining jar under gentle agitation.

4. Reaction 1

4.1 Start preparing **Reaction 1** by diluting **Buffer 1 TF (5x)** 1:5 in water. Vortex and spin down.

4.2 Add Enzyme 1 TF (dilute 1:40). Mix gently by pipetting and spin down.

4.3 Add enough **Reaction 1** to cover the sample area.

4.4 Incubate for 30 min at 37 °C in a preheated humidity chamber. **4.5** Decant the solution, exchange wash once and wash slides for 5 min with 1x TBS-T in a staining jar under gentle agitation.

5. Reaction 2: protect from light!

5.1 Start preparing Reaction 2 by diluting Buffer 2 TF (5x) 1:5 in water. Vortex and spin down.

5.2 Add Enzyme 2 TF (dilute 1:40). Mix gently by pipetting, and spin down.

5.3 Add enough Reaction 2 to cover the sample area.

5.4 Incubate for 60 min at +37 °C in a preheated humidity chamber. **5.5** Decant the solution and wash slides for 2 min with 1x TBS in a

staining jar under gentle agitation.

6. Mounting (not provided): protect from light!

6.1 Decant excess wash buffer from the slides.

6.2 Add DAPI or a nuclear stain of your choice with a similar emission spectrum mixed in PBS. Incubate for 5 min at room temperature in a humidity chamber.

6.3 Decant the solution, wash slides 2x10 min in 1x TBS under gentle agitation.

6.4 Perform a final 15 min wash in 0.1x TBS under gentle agitation. Dry slides in a slide centrifuge and mount them with a coverslip using an anti-fade mounting medium.

7. Imaging

7.1 Image your slides in fluorescence or confocal microscope, using 20x objective or higher.

7.2 For imaging, a filter set corresponding to DAPI, FITC, Cy3, and Cy5 is needed.

Filter set	Detecting	Excitation (λ)	Emmision (λ)
DAPI	Nuclei		
FITC	Rabbit antibody signal	480-490 nm	525-535 nm
СуЗ	Mouse antibody signal	545-555 nm	575-585 nm
Cy5	Proximity signal	635-645 nm	665-675 nm

