REAplex Neuro Core, mouse, frozen-PFA

Order no. 130-139-383

Contents

1. Description
   - 1.1 Background information
   - 1.2 Applications
   - 1.3 Reagent and instrument requirements
2. Protocol

1. Description

This product is for research use only.

Components	**1 × REAplex Neuro Core, mouse, frozen-PFA** containing 20 × 200 µL single liquid fluorochrome-conjugated antibodies, anti-mouse
	1 × MACSima® Stain Support Kit, mouse
Product format	Reagents are supplied in buffer containing stabilizer and 0.05% sodium azide. The product format of the MACSima Stain Support Kit, mouse is listed in the respective data sheet.
Storage	Store protected from light at +2 to +8 °C. Do not freeze. The expiration date is indicated on the vial label.

1.1 Background information

REAplex Neuro Core, mouse, frozen-PFA is a pre-defined panel of liquid antibodies for use with the MACSima Platform. The MACSima System is a fully automated instrument capable of staining hundreds of markers on a single sample using MACSima Imaging Cyclic Staining (MICS) technology.

The Kit is a pre-defined panel of 20 liquid antibody conjugates. It is designed as a standardized basis for spatial mapping of frozen mouse brain tissue sections on the MACSima platform. The markers stain key brain structures, enabling visualization of neurons, identification of glial and immune cell populations, and characterization of their functional states.

The kit is supplied with a pre-defined set of staining and imaging parameters that provide a standardized overview of a tissue section. It can also be modified to achieve optimal results for a specific sample or supplemented with more antibodies, if required. REAplex Neuro Core, mouse, frozen-PFA includes the MACSima Stain Support Kit, which contains support reagents necessary for conducting a MICS experiment.

1.2 Applications

Spatial biology analysis using the MACSima Platform for research in the field of neurology, e.g.:

- Map brain circuits and their development in detail by visualizing neurons, their maturation, and synaptic connections.
- Examine the role of glia in shaping neuronal networks by identifying astrocytes, oligodendrocytes, and radial glia.
- Track immune activity in the brain by visualizing activated microglia and macrophages.
- Investigate neurodegenerative diseases by visualizing neurofibrillary tangles via Tau staining in Alzheimers disease, or by mapping loss of Tyrosin Hydroxylase expression in Parkinson's disease.

1.3 Reagent and instrument requirements

- MACSima System (# 130-121-164)
- MACSima Running Buffer (# 130-121-565)
- MACSwell™ One Imaging Frames (# 130-124-673), MACSwell Two Imaging Frames (# 130-124-675), MACSwell Four Imaging Frames (# 130-124-676), or MACSwell 24 Imaging Plates (# 130-124-677)
- MACSwell Deepwell Plates (# 130-126-865)
- MACSwell Sealing Foils (# 130-126-866)

2. Protocol

The detailed protocol is available at **www.miltenyibiotec.com/REAplex-Neuro**.

Refer to **www.miltenyibiotec.com** for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com for local Miltenyi Biotec Technical Support contact information.

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