

Ce3D™ Tissue Clearing Kit

Catalog# / Size	427701 / 10 tests 427702 / 50 tests
Regulatory Status	RUO
Other Names	Clearing-enhanced 3D
Description	Ce3D™ (clearing-enhanced 3D) Tissue Clearing Solution is a hydrophilic, refractive index (RI) matching reagent that is easy-to-use, and allows rapid and robust clearing of diverse tissues. Ce3D™ has an RI of ~1.5 and is compatible with multicolor fluorescence microscopy. The Ce3D™ tissue clearing technique works by simple immersion of tissue into the clearing reagent, and does not require special equipment or containers. Ce3D™ Tissue Clearing Kit includes Ce3D™ Tissue Clearing Solution, Ce3D™ Permeabilization/Blocking Buffer, Ce3D™ Antibody Diluent Buffer and Ce3D™ Wash Buffer, which are formulated for use with 3D IHC application.

Product Details

Storage & Handling	The buffer solution should be stored between 2°C and 8°C.
Application	IHC-F - Quality tested 3D IHC - Verified
Recommended Usage	<p>Ce3D™ tissue clearing solution is used at 500 µL per test size (500 µm thick tissue) to cover the tissue.</p> <p>Ce3D™ Permeabilization/blocking buffer is used at 500 µL per test size (500 µm thick tissue) to cover the tissue.</p> <p>Ce3D™ antibody diluent buffer is used at 500 µL per test size (500 µm thick tissue) to cover the tissue.</p> <p>Ce3D™ wash buffer is used at 500 µL per test size (500 µm thick tissue) to cover the tissue.</p>

Antigen Details

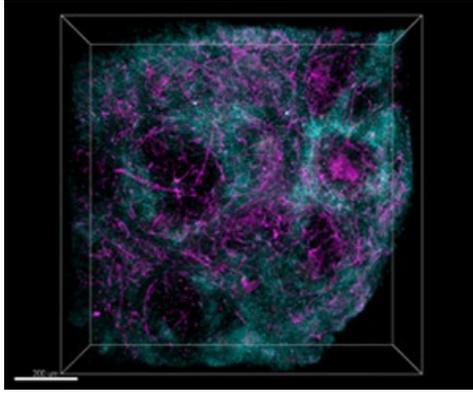
Gene ID	NA
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Related Protocols

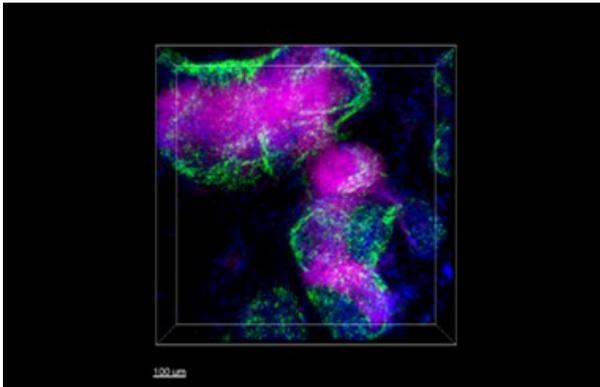
[Immunohistochemistry Protocol for Frozen Sections](#)

[Ce3D™ Tissue Clearing Kit](#)

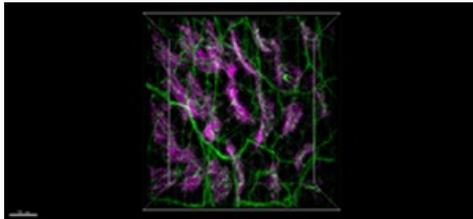
Product Data



Paraformaldehyde-fixed (4%), 500 μm -thick mouse spleen section was processed according to the Ce3D™ Tissue Clearing Kit protocol (Cat. No. 480401). The section was anti-mouse CD172a (SIRP α) (clone P84) Alexa Fluor® 594 at 5 $\mu\text{g}/\text{mL}$ (cyan), and anti-mouse CD200 (OX2) (clone OX-90) Alexa Fluor® 647 at 5 $\mu\text{g}/\text{mL}$ (magenta). The section was then optically cleared and mounted in a sample chamber. The image was captured with a 10X objective using Zeiss 780 confocal microscope and processed by Imaris image analysis software. [Watch the video.](#)



Paraformaldehyde-fixed (4%), 500 μm -thick mouse spleen section was processed according to the Ce3D™ Tissue Clearing Kit protocol (Cat. No. 480401). The section was costained with anti-mouse CD169 (Siglec-1) (clone 3D6.112) Alexa Fluor® 488 at 5 $\mu\text{g}/\text{mL}$ (green), anti-mouse I-A/I-E (clone M5/114.15.2) Alexa Fluor® 594 at 5 $\mu\text{g}/\text{mL}$ (blue), and anti-mouse CD3 ϵ (clone KT3.1.1) Alexa Fluor® 647 at 5 $\mu\text{g}/\text{mL}$ (magenta). The section was then optically cleared and mounted in a sample chamber. The image was captured with a 10X objective using Zeiss 780 confocal microscope and processed by Imaris image analysis software. [Watch the video.](#)



Paraformaldehyde-fixed (4%), mouse intestine section was processed according to the Ce3D™ Tissue Clearing Kit protocol (Cat. No. 480401). The section was costained with anti-Tubulin β 3 (TUBB3) (clone TUJ1) Alexa Fluor® 594 at 5 $\mu\text{g}/\text{mL}$ (green), and anti-mouse CD45 (clone 30-F11) Alexa Fluor® 647 at 5 $\mu\text{g}/\text{mL}$ (magenta). The section was then optically cleared and mounted in a sample chamber. The image was captured with a 20X objective using Zeiss 780 confocal microscope and processed by Imaris image analysis software. [Watch the video.](#)

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