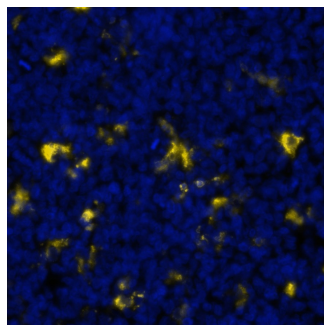


DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CD68/SR-D1 in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 298813
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human CD68/SR-D1 Asn22-Ile320 Accession # AAB25811
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS		
<i>Please Note: Optimal dilutions should be determined by each laboratory for each application. <a href="#">General Protocols</a> are available in the Technical Information section on our website.</i>		
	Recommended Concentration	Sample
Dual RNAscope ISH-IHC Compatible	5 µg/mL	See Below
Multiplex Immunofluorescence	20 µg/mL	Paraffin embedded tissue sections of Human Tonsil
Immunohistochemistry	8-25 µg/mL	See Below

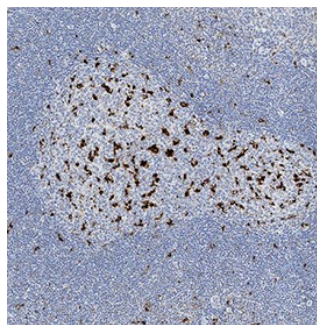
DATA

Multiplex Immunofluorescence



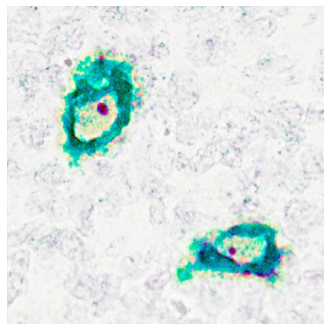
**Detection of CD68 in Human Tonsil via Multiplex Immunofluorescence staining on COMET™** CD68 was detected in immersion fixed paraffin-embedded sections of human tonsil using Mouse Anti-Human CD68 Monoclonal Antibody (Catalog # MAB2040) at 20 µg/mL at 37 ° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9). Tissue was stained using the Alexa Fluor™ 647 Goat anti-Mouse IgG Secondary Antibody at 1:200 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # DR647MS) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to the cytoplasm. Protocol available in COMET™ Panel Builder.

Immunohistochemistry



**CD68/SR-D1 in Human Tonsil.** CD68/SR-D1 was detected in immersion fixed paraffin-embedded sections of human tonsil using Mouse Anti-Human CD68/SR-D1 Monoclonal Antibody (Catalog # MAB2040) at 15 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cell surface and cytoplasm in lymphocytes. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Dual RNAscope ISH-IHC Compatible



**CD68/SR-D1 in Human Tonsil Using Dual RNAscope® ISH and IHC.** CD68/SR-D1 mRNA (red) and protein (green) was detected in formalin-fixed paraffin-embedded tissue sections of human tonsil probed with ACD RNAscope® Probe (Catalog # 560591) followed by immunohistochemistry using R&D Systems Mouse Anti-Human CD68/SR-D1 Monoclonal Antibody (Catalog# MAB2040) at 5µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte HRP Polymer Antibody (R&D Systems, Catalog # Catalog # VC001). Tissue was stained using ACD RNAscope® 2.5 HD Duplex Detection Reagents (Catalog # 322500). Specific staining was localized to cytoplasm in lymphocytes.

PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
<b>Shipping</b>	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

BACKGROUND

CD68, also called Scavenger Receptor D1 (SR-D1), is a type I transmembrane glycoprotein that belongs to the LAMP family of molecules. CD68 is expressed on monocytes and macrophages and serves as a scavenger receptor for oxidized LDL.