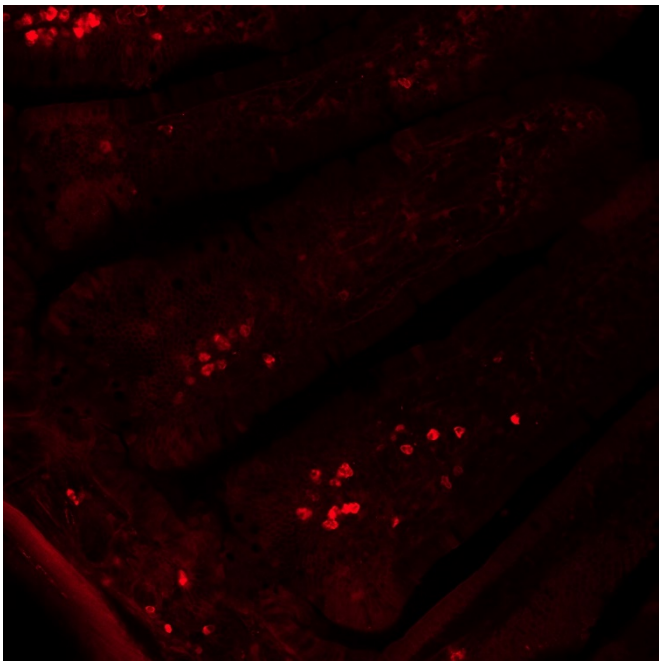
Anti-CD68 Antibody
NH-M-0-13

Product Type: Recombinant Mouse monoclonal IgG, primary antibodies
Species reactivity: Human, Mouse
Applications: IF-Tissue Clearing
Clone number: PDM0-13

Description:	CD68 (Cluster of Differentiation 68) is a protein highly expressed by cells in the monocyte lineage (e.g., monocytic phagocytes, osteoclasts), by circulating macrophages, and by tissue macrophages (e.g., Kupffer cells, microglia). Human CD68 is a transmembrane glycoprotein, heavily glycosylated in its extracellular domain, with a molecular weight of 110 kD. Its primary sequence consists of 354 amino acids with predicted molecular weight of 37.4 kD if it were not glycosylated. Immunohistochemistry can be used to identify the presence of CD68, which is found in the cytoplasmic granules of a range of different blood cells and myocytes. It is particularly useful as a marker for the variouscells of the macrophage lineage, including monocytes, histiocytes, giant cells, Kupffer cells, and osteoclasts. This allows it to be used to distinguish diseases of otherwise similar appearance, such as the monocyte/macrophage and lymphoid forms of leukaemia (the latter being CD68 negative). Its presence in macrophages also makes it useful in diagnosing conditions related to proliferation or abnormality of these cells, such as malignant histiocytosis, histiocytic lymphoma, and Gaucher's disease. AntiCD68 monoclonal antibodiesthat reactwith tissues of rodent and other speciesinclude ED1, FA-11, KP1 (a.k.a. C68/684), 6A326, 6F3, 12E2, 10B1909, and SPM130. Monoclonalsthatreactwith humansinclude, Ki-M7, PGM1, 514H12,ABM53F5, 3F7C6, 3F7D3, Y1/82A, EPR20545, CDLA68-1, LAMP4-824.
Immunogen:	Recombinant protein within Human CD68 aa 1-354.
Positive control:	Mouse colon tissue .
Subcellular location:	Cell membrane, Endosome membrane, Lysosome membrane.
Recommended Dilutions:	
IF-Tissue Clearing	1:100
Adaptive Clearing kit	Tissue clearing kit（Hydrophilic）（Cat#:NH-CR-210701）、Enhanced Tissue clearing kit(Cat#:NH-CR-230701)
Storage Buffer:	PBS(pH7.4), 0.1% BSA, 40% Glycerol. Preservative:0.05% Sodium Azide.

Storage I nstruction:	Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.
Purity:	Protein A affinity purified

Images

	Fig1:Immunofluorescence analysis of fresh mouse brain tissue labeling CD68 (NH-M-0-13) at 1/100 dilution. The section was treated with Enhanced Tissue clearing kit(Cat#:NH-CR-230701), the tissues were blocked for 2 hours at 4℃, washed with PBS, and then probed with the primary antibody ((NH-M-0-13,1/100) overnight at 4℃, washed with PBS. Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) was used as the secondary antibody at 1/100 dilution. Image acquisition was performed with Zeiss 980.