

Macrophage/Neutrophil Marker (3H2625): sc-71534

BACKGROUND

Blood consists of a solid component that includes erythrocytes, leukocytes and platelets and a liquid component known as plasma, which is a buffered solution of proteins and salts. Innate and adaptive immune responses rely on the function of leukocytes, which are nucleated white blood cells that destroy invading cells and remove debris. White blood cells, also designated polymorphonuclear leukocytes, include granulocytes, monocytes and mast cell precursors. Macrophages are tissue localized, differentiated cells derived from circulating monocytes. Along with circulating neutrophils, macrophages are phagocytic cells that engulf antibody-coated pathogens, which are subsequently degraded in intracellular vesicles. Tissue localized macrophages can target a spectrum of bacterial pathogens without requiring previous exposure.

REFERENCES

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SOURCE

Macrophage/Neutrophil Marker (3H2625) is a rat monoclonal antibody raised against peripheral blood mononuclear cells of human origin.

PRODUCT

Each vial contains IgG_{2b} in 250 µl of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Macrophage/Neutrophil Marker (3H2625) is recommended for detection of all human tissue macrophages and neutrophils, binding to a cytoplasmic epitope. In peripheral blood the antibody stains all granulocytes and approximately 50% of monocytes of human origin by immunofluorescence and immunohistochemistry on frozen sections (starting dilution to be determined by researcher, dilution range 1:10-1:200); non cross-reactive with Langerhans cells and osteoclasts.

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.



See **Macrophage Marker (MAC387): sc-66204** for Macrophage Marker antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647.