

mFluor™ Violet 450 Anti-human CD47 Antibody *HIRH47*

Catalog number: 104700Z0, 104700Z1

Unit size: 100 tests, 500 tests

Product Details

Storage Conditions 2-8°C with minimized light exposure. Do not freeze.

Expiration Date 12 months upon receiving

Concentration 0.1 mg/mL

Formulation Phosphate-buffered saline (PBS, pH 7.2), 0.09% sodium azide, 0.2% (w/v) BSA

Antibody Properties

Species Reactivity Human

Class Primary

Clonality Monoclonal

Host Mouse

Isotype Mouse IgG1

Immunogen CD47 (gp42, IAP, neurophilin, MER6, Integrin associated protein)

Clone HIRH47

Conjugate mFluor™ Violet 450

Biological Properties

Appearance Light yellow liquid

Preparation Antibody purified by affinity chromatography and then conjugated with mFluor™ Violet 450

under optimal conditions

Application Flow Cytometry (FACS), Fluorescence Imaging

Spectral Properties

Conjugate mFluor™ Violet 450

Excitation Wavelength 406 nm

Emission Wavelength 445 nm

Applications

HIRH47 is an anti-human monoclonal antibody that targets the CD47 antigen. CD47 (sometimes referred to as MER6, Integrin associated protein or Rh-associated protein) is a 42 - 52 kD multi-pass membrane protein that is found on the surface of cells like T cells. In some organisms, CD47 upregulates cell population proliferation, acts to positively regulate phagocytosis and is involved in the positive regulation of stress fiber

assembly. In addition, it is a component of key cellular pathways, namely, the integrin-mediated signaling pathway and negative regulation of Fcgamma receptor signaling pathway involved in phagocytosis. From a research standpoint, it is of biological interest due to its association with vital macromolecules/ligands like SIRP, Thrombospondin and CD61. CD47 is a fairly uncommon antibody target, with a little more than 5000 publications in the last decade. Even still, CD47 is often used in flow cytometry applications as a phenotypic marker for differentiation of cell types, particularly in the study of immunology. This antibody was purified through affinity chromatography and conjugated to mFluor™ Violet 450 (ex/em = 406/445 nm). It is compatible with the 405 nm laser and 450/50 nm bandpass filter (for example, as in the BD FACSJazz™).