

# APC/iFluor™ 750 Anti-human CD47 Antibody \*HI172\*

Catalog number: 104711G0, 104711G1, 104711G2

Unit size: 25 tests, 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 HI172

Conjugate APC/iFluor™ 750

## **Biological Properties**

Preparation Antibody purified by affinity chromatography and then conjugated with APC/iFluor™ 750 under optimal

conditions

Application Flow Cytometry (FACS)

#### **Spectral Properties**

Conjugate APC/iFluor™ 750

Excitation Wavelength 754 nm

Emission Wavelength 793 nm

# **Applications**

HI172 is an anti-human monoclonal antibody that is specific for the CD47 antigen. CD47 (sometimes called Integrin associated protein) is a 42 - 52 kD multi-pass membrane protein that is found on the surface of cells such as granulocytes, platelets, endothelial cells and B cells. CD47 acts in critical cellular pathways, in particular, the negative regulation of Fc-gamma receptor signaling pathway involved in phagocytosis and integrin-mediated signaling pathway. In addition, in certain organisms, it downregulates Fc-gamma receptor signaling pathway involved in phagocytosis, upregulates T cell activation and acts to positively regulate inflammatory response. From a research standpoint, it is of biological interest due to

more than 5000 publications in the las differentiation of cell types, particularl conjugated to APC/iFluor™ 750 (ex/em	y in the study of immunology	y. This antibody was purific	ed through affinity chromato	ography and
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