

# Mouse Anti Human CD71

Code: [ USC ] 71U-HI166-01

SIZE: 0.1 MG

Clone: HI166

Label・Form: Purified

WSNo: V A027

Isotype: IgG1

## Description:

CD71 McAb recognizes a 95KD disulfide-bonded homodimeric type II transmembrane glycoprotein called transferrin receptor (TfR). CD71 antigen is expressed typically at high levels on all proliferating cell, activated cells and erythroblasts or reticulocytes, which require iron, but not on resting peripheral blood leucocytes and mature erythrocytes. CD71 antigen is also expressed at high levels on the cells of almost most neoplastic cell lines and 29-32% of bone marrow cells. There is soluble form of CD71 in serum (plasm) besides membrane form of CD71. Using CD71 McAb to detect soluble form of CD71 antigen is a new way for diagnosing anemia diseases after detecting the ferritin in the serum. HI160 McAb is a inhibitory antibody.

## Preparation:

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with FITC, R-PE under optimum conditions.

## Usage:

The purified reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis and is tested for immunohistochemical staining of acetone-fixed frozen sections. The conjugated reagent (FITC, R-PE) is tested for flow cytometric analysis using 20  $\mu$  l/106 cells or 100  $\mu$  l peripheral blood cells.

## Storage:

For purified forms, long term storage at  $-20^{\circ}\text{C}$ . For conjugated forms, storage at  $4^{\circ}\text{C}$ , should not be frozen and avoid prolonged exposure to light.

## References:

1. Yang CY., Shen DC., She M., et al., 1990. HI166: A monoclonal antibody against transferrin receptor. ACTA Academiae Medicinae Sinicae. 12(6): 4002. Yang CY., Shen DC., She M., et al., 1992. Study of two monoclonal antibodies recognizing CD71 different epitopes. Chinese J. of Microbiology and Immunology. 12(3): 1783. Yang CY. Shen DC., She M., et al., 1993. The biological properties of two mcabs recognizing different epitopes of CD71 antigen. Tissue Antigens. 42(4):2534. Schlossman S., L.Bloumsell, W.Gilks, et al., eds. 1995. Leucocyte Typing V: White Cell Differentiation Antigens. P: 1139-1141, 2015 Oxford University Press, New York.



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