

# anti-human CD71

## Monoclonal Antibody HI166 to human CD71

Cat-No: **21810711**

100 µg in 100 µl

**Clone:** HI166

**Specificity:** The antibody HI166 reacts with CD71 antigen (transferrin receptor), a 95 kDa type II homodimeric transmembrane glycoprotein expressed on activated B and T lymphocytes, macrophages and erythroid precursors; it is lost on resting blood leukocytes. The HI166 antibody inhibits CD71, Transferrin receptor activity.

**Isotype subclass:** Mouse IgG1

**Form:** The antibody was purified by protein G affinity chromatography.

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS with 0.09% sodium azide (pH 7.2)

**Expiration date:** The reagent is stable until the expiry date stated on the vial label

**Storage conditions:** Store at -20 °C. Avoid freeze/thaw cycles.

**Application:** Flow Cytometry, Immunohistochemistry (acetone-fixed frozen sections)

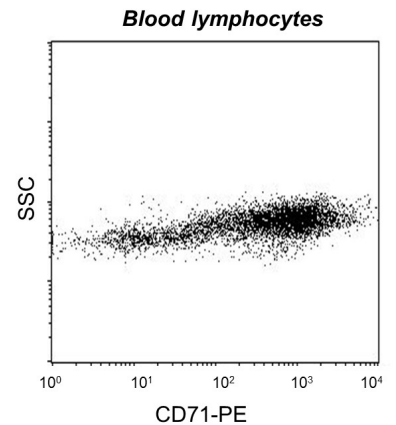
**Background:** CD71 (transferrin receptor) is a type II transmembrane glycoprotein expressed as homodimer in erythroid blood cell line and in activated leukocytes. CD71 antigen is expressed typically at high level on all proliferating cell, activated cells and erythroblasts or reticulocytes that require iron, but not on resting peripheral blood leukocytes and mature erythrocytes. CD71 antigen is also expressed at high level on cells of most neoplastic cell lines and 29-32% of bone marrow cells. A soluble form of CD71 in serum (plasma) exists besides a membrane form. Monitoring the soluble form of CD71 antigen in plasma is a diagnostic marker of anemia besides assaying plasma ferritin.

### References:

1. Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989).
2. Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995).

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.



**Attention!** Cells from one healthy individual are shown. Cell Populations and staining intensity may vary interindividually.

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