

# Datasheet



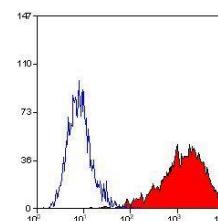
Mouse mAb to **CD71**  
Clone **159-3C9**  
Isotype **IgG1-κ**

## Source

A BALB/c mouse was immunized with KG1 acute myeloid leukemia cell line.  
Fusion partner: SP2/0.

## Specifications

The transferrin receptor is a type II membrane glycoprotein existing as a homodimer of 180-190 kDa with interchain disulphide bonding. The ligand is the serum iron transport protein transferrin. CD71 is expressed weakly on all resting leucocytes but is upregulated on all cells upon activation, reflecting the iron dependence of proliferation. In other tissues CD71 is expressed on most dividing cells, but also strongly on brain endothelium and alveolar macrophage. CD71 expression can reflect clinical behaviour or response to therapy in a number of malignancies including leukemia, lymphoma and breast cancer.



**Figure 1:** KG1 cells stained with 159-3C9 (FACS).

## Species reactivity

Positive: human.

## Applications

CD71 is an indicator for proliferation.

Flow cytometry	Frozen sections	Immunofluorescence	Western blot
+	+	+	+

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.  
Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunoblotting (1-2 µg/ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

## Positive control

CCRF-CEM, Jurkat, K-562, human placenta, breast carcinoma.

## References

- Knapp et al. Leukocyte Typing IV, Oxford Univ Press.