

CD71 (Clone ZM52, also known as MRQ48) Mouse Monoclonal Antibody

Specificity: Human. Others-not known

Immunogen: Purified human CD71 protein

Ig Class: IgG1/ κ

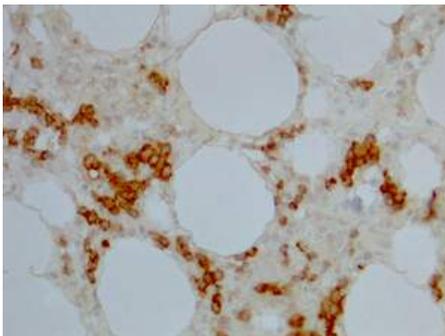
Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:50-100; *Positive Control:* Bone marrow. *Cellular Localization:* Cytoplasmic.

Description: The transferrin receptor (CD71) is most highly expressed on placental syncytiotrophoblasts, myocytes, basal keratinocytes, hepatocytes, endocrine pancreas, spermatocytes, and erythroid precursors. The level of transferrin receptor expression is highest in early erythroid precursors through the intermediate normoblast phase, after which expression decreases through the reticulocyte phase. The maturation of erythrocytes results in loss of transferrin receptor expression, in concert with down-regulation of the machinery for hemoglobin synthesis. The high level of transferrin receptor within erythroid precursors makes anti-CD71 an excellent marker for evaluation of erythroid precursors within bone marrow biopsy. Anti-CD71 is useful in identifying erythroid precursors with very little interference from mature erythrocytes and also in the determination of erythroid leukemia, benign erythroid proliferative disorders, and myelodysplastic syndrome.

Intended Use: This antibody is intended for in vitro diagnostic (IVD) use. CD71 (clone ZM52) mouse monoclonal primary antibody is intended for laboratory use in the detection of CD71 in formalin-fixed, paraffin-embedded tissue by immunohistochemical (IHC) staining. The staining results should be interpreted by qualified pathologists in conjunction with the patient's relevant clinical history.

Supplied As: Purified antibody in Tris-HCl buffer containing stabilizing protein and <0.1% sodium azide.



References:

1. Ponka P, et al. *Int J Biochem Cell Biol.* 1999; 31:1111-37.
2. Nakahata T, et al. *Leuk Lymphoma.* 1994; 13:401-9.
3. Marsee DK, et al. *Am J Clin Pathol.* 2010; 134:429-35.

Formalin-fixed, paraffin-embedded bone marrow stained with anti-CD71 antibody using peroxidase-conjugate and DAB chromogen. Note the cytoplasmic staining of erythroid precursors

REF Z2268 (1.0 ml) (Concentrate)