

For studying neoplastic diseases of the blood

Anti-Hemoglobin F (Human) pAb

◎ High specificity for Hemoglobin F

© Reacts with erythroblasts in patients with myelodysplastic syndrome

Hemoglobin F (fetal hemoglobin: HbF) is produced mainly during fetal life and rapidly declines to extremely low levels by the age of 1 year. In healthy adults, HbF production is minimal, and HbF is restricted to only a minority of erythrocytes. This antibody detects HbF in fetus and in patients with aplastic anemia, MDS, hemoglobinopathies, and malignancies affecting the erythropoietic system.

Anti-Hemoglobin F (Human) pAb (Code PM078) is an HbF-specific antibody that does not cross-react with HbA. It is useful in investigations of HbF synthesis and HbF reactivation in various hematopoietic diseases.

Immunohistochemistry

HbF negative



Erythroblasts in healthy adult bone marrow

HbF positive

Erythroblasts in the bone marrow of patients with MDS

Brown: Anti-Hemoglobin F (Human) pAb, Blue: Hematoxylin staining, Tissue type: FFPE, Dilution ratio of the primary antibody: 1:100 Data were kindly provided by Dr. Masafumi Ito. (Department of Pathology, Japanese Red Cross Nagoya Daiichi Hospital)

For clinical purposes, measurements of HbF by HPLC are performed as an aid in diagnosing congenital hemolytic anemia. In addition, HbF is measured as a means of identifying disorders since HbF is elevated in hematologic neoplastic disorders and aplastic anemias, such as MDS and leukemia. However, the development of more convenient measurement methodologies is necessary, because HbF measurements by HPLC require several days until results are reported.

This antibody has less non-specific reactions, and high specificity for HbF, and is used by pathologists.

Code	Product	Clone	Isotype	Size	Applications	Reactivity
PM078	Anti-Hemoglobin F (Human) pAb	Polyclonal	Rabbit Ig (aff.)	100 μL	IH	Human
IH: Immunobistochemistoc						

References

Produced by

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3. Choi JW. et al. F-blast is a useful marker for differentiating hypocellular refractory anemia from aplastic anemia. Int J Hematol 75, 257-260 (2002)

4. Choi JW. *et al.* Significance of fetal hemoglobin-containing erythroblasts (F blasts) and the F blast/F cell ratio in myelodysplastic syndromes. Leukemia 16, 1478-1483 (2002) 5. Choi JW. *et al.* F blast production correlates strongly with upregulation of inducible nitric oxide synthase in myelodysplastic syndromes. Annals Hematol 81, 548-550 (2002)

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2015.12 152134-20121000



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SUMITOMO FUDOSAN SHIBADAIMON NICHOME BLDG. 2-11-8 Shibadaimon, Minato-ku, Tokyo 105-0012 Japan TEL: +81-3-6854-3614 E-mail: support@mbl.co.jp URL: https://www.mblbio.com/bio/g/