For Research Use Only.
Not for use in diagnostic procedures.

Anti-Hemoglobin F (Human) pAb

CODE No. PM078

CLONALITY Polyclonal
ISOTYPE Rabbit Ig, affinity purified
QUANTITY 100 µL

SOURCE Purified IgG from rabbit serum
IMMUNOGEN KLH conjugated synthetic peptide, CLTSLGDAIKH (corresponding to amino acid residues 69-78 of human hemoglobin, gamma A)
REACTIVITY This antibody reacts with hemoglobin F, and does not cross-react with hemoglobin A.
FORMULATION PBS containing 1% BSA and 0.09% NaN_3
*Azide may react with copper or lead in plumbing system to form explosive metal azides. Therefore, always flush plenty of water when disposing materials containing azide into drain.
STORAGE This antibody solution is stable for one year from the date of purchase when stored at 4°C.

APPLICATION-CONFIRMED

Immunohistochemistry 1:100 (paraffin section)
*Heat or enzymatic treatment is required.

SPECIES CROSS REACTIVITY on IHC

Species	Human	Mouse	Rat	Hamster
Tissues	Fetal liver, MDS bone marrow	Not tested	Not tested	Not tested
Reactivity	+			

Entrez Gene ID 3047 (Human)

REFERENCE
1) Choi, J. W., *et al., Int. J. Hematol.* **74**, 277-280 (2001)

For more information, please visit our website at https://ruo.mbl.co.jp/.

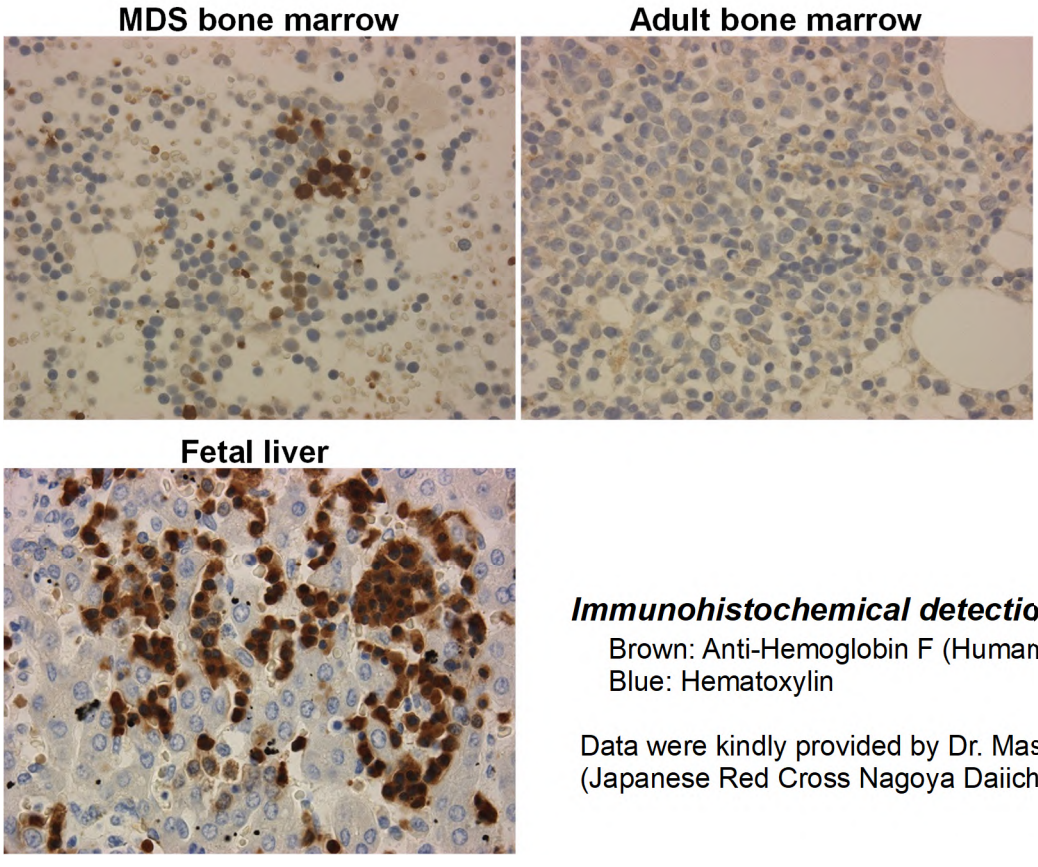
The descriptions of the following protocols are examples. Each user should determine the appropriate condition.

Immunohistochemistry for formalin fixed paraffin-embedded section

Immunohistochemisry was performed using Leica BOND-MAX™ and Bond™ reagents. Leica Bond-MAX™ and BOND™ reagents are trademarks of Leica Biosystems Newcastle Ltd. For more information, please contact Leica Biosystems Newcastle Ltd.

1) Soak slides in Deparaffinized Solution for 30 min. at 72°C.
2) Wash the slides 3 times with Ethanol.
3) Wash the slides 1 time in Washing Solution for 5 min.
4) Perform heat or enzymatic treatment for antigen retrieval.
   Heat-treatment: Soak slides in Epitope Retrieval Solution for 20 min. at 100°C and then let the slides cool down to room temperature for 12 min. at room temperature.
   Enzymatic treatment: Soak slides in Enzymatic Solution for 10 min. at 37°C.
5) Wash the slides 3 times in Washing Solution.
6) Incubate the slides with primary antibody diluted with Antibody Diluent as suggested in the **APPLICATION** for 15 min. at room temperature. (The concentration of antibody will depend on the conditions.)
7) Wash the slides 4 times in Washing Solution.
8) Incubate with Polymer Enhancer reagent for 8 min. at room temperature.
9) Wash the slides 4 times in Washing Solution.
10) Incubate with Polymer reagent for 10 min. at room temperature.
11) Wash the slides 2 times in Washing Solution.
12) Wash the slides 2 times in distilled water.
13) Immerse the slides in Blocking reagent for 5 min. at room temperature.
14) Wash the slides 4 times in distilled water.
15) Visualize by reacting for 10 min. with DAB reagent. *DAB is a suspect carcinogen and must be handled with care. Always wear gloves.
16) Wash the slides 4 times in distilled water.
17) Counterstain with Hematoxylin for 3 min., wash the slides in distilled water.
18) Dehydrate by immersing in Ethanol, followed by immersing in Deparaffinized Solution. Now ready for mounting.

(Positive controls for Immunohistochemistry; Bone marrow from patient with MDS and autopsied fetal liver,)



Immunohistochemical detection of Hemoglobin F

Brown: Anti-Hemoglobin F (Human) pAb (MBL, code no. PM078)
Blue: Hematoxylin

Data were kindly provided by Dr. Masafumi Ito.
(Japanese Red Cross Nagoya Daiichi Hospital)