FITC Mouse Anti-Human Fetal Hemoglobin

Description
Reacts with fetal hemoglobin (HbF), a form of hemoglobin present during fetal development. HbF resembles adult hemoglobin (HbA) in possessing two alpha chains but differs in possessing two gamma instead of two beta chains. In normal adults, synthesis of HbF does persist at very low levels (<1% of total Hb) and is restricted to a small population of erythrocytes called F cells. Hemoglobin F-expressing erythrocytes are normally seen during pregnancy. An increase in the expression of fetal hemoglobin in adult peripheral red blood cells is a common feature in the genetic disorders of hemoglobin, sickle-cell disease (SCD) and beta thalassemia.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Preparation and Storage
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Recommended Assay Procedure:
We recommend to use 0.05% cold glutaraldehyde at room temperature for 10 minutes to fix the cells, then use 0.1% Triton X-100 at room temperature for 10 minutes to permeabilize the cells.

Suggested Companion Products

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<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
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<tbody>
<tr>
<td>555748</td>
<td>FITC Mouse IgG1, k Isotype Control</td>
<td>100 Tests</td>
<td>MOPC-21</td>
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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).

2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.


4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

