

Catalog No. BMR 00150

Mouse monoclonal antibody

Anti-Human CBFA2T2

■ Formulation

Mouse monoclonal anti-human **CBFA2T2** antibody in PBS (3.0 mM KCl, 1.5 mM KH₂PO₄, 140 mM NaCl, 8.0 mM Na₂HPO₄ (pH 7.4)) containing 1% bovine serum albumin (BSA) and 0.05% sodium azide (NaN₃).

■ Antibody concentration

100 µg/ml (1.0 ml)

■ Storage

Store at 2-8°C for up to one year.
We recommend storing at -20°C for long-term storage.
Avoid repeat freezing and thawing cycles.

■ Preparation

This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.

■ Sterility

Filtered through a 0.22 µm membrane.

■ Applications

Please visit our website at <http://www.biomatrix.co.jp/>.

■ Disposal

This antibody solution contains sodium azide (NaN₃) as a preservative. There is a potential hazard that NaN₃ reacts with copper or lead to produce an explosive compound. For safe disposal, the vial has to be washed thoroughly with water.

■ Safety warnings and precautions

Caution must be taken to avoid contact with skin or eyes. In such a case, rinse thoroughly at once with water. Do not ingest, inhale, or swallow. Seek medical attention immediately.

Wear appropriate protective clothing such as laboratory overalls, safety glasses and gloves.

It is strongly advised that this product should be handled by people who have been well trained in laboratory techniques and that it is handled with care pursuant to the principles of good laboratory practice.

All chemicals are deemed potentially harmful.

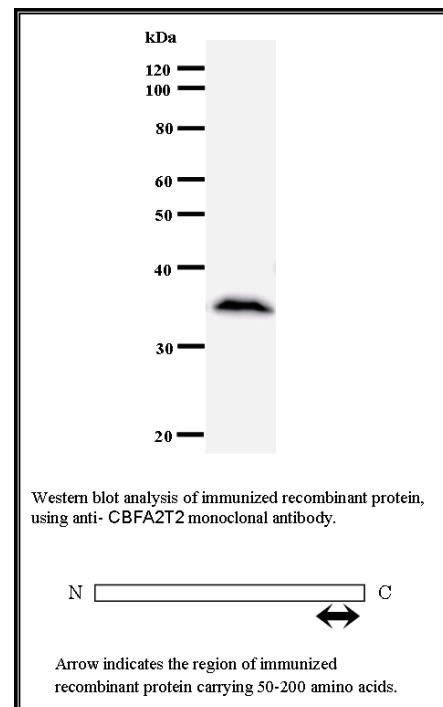
The vial is prone to fall over. Use caution, especially when the lid is off.

Lot No. **CBF5I134-2**

Clone No. **CBF5I134**

Antibody class : **IgG1**

Immunogen : **Recombinant**



FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC PROCEDURES.

manufactured by BMR

Catalog No. BMR00150

Mouse monoclonal antibody **Anti-Human CBFA2T2**

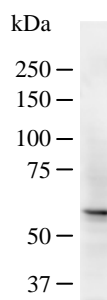
■ Background

In acute myeloid leukemia, especially in the M2 subtype, the t(8;21)(q22;q22) translocation is one of the most frequent karyotypic abnormalities. The translocation produces a chimeric gene made up of the 5'-region of the RUNX1 (AML1) gene fused to the 3'-region of the CBFA2T1 (MTG8) gene. The chimeric protein is thought to associate with the nuclear corepressor/histone deacetylase complex to block hematopoietic differentiation. The protein encoded by this gene binds to the AML1-MTG8 complex and may be important in promoting leukemogenesis. Several transcript variants are thought to exist for this gene, but the full-length nature of only three have been described. [NCBI Entrez Gene Summary]

■ Recommended condition

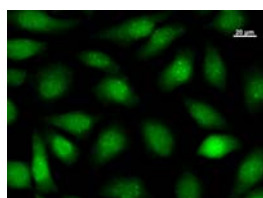
WB: 0.2-2 µg/ml FC: 0.5-2 µg/sample ICC: 2-100 µg/ml

■ Application

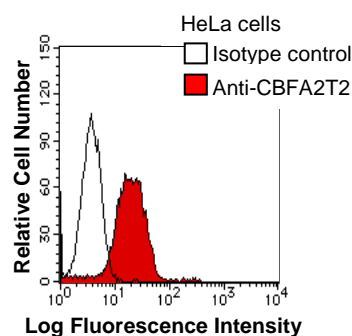


Detection of human CBFA2T2 by Western blot.
 Samples: Whole cell lysate (25 µg) from HeLa cells. [Lot No. CBF51134-2]

Predicted molecular weight: 67 kDa



Immunostaining analysis in HeLa cells. HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100 in PBS. The cells were immunostained with anti- CBFA2T2 mAb. [Lot No. CBF51134-2]



HeLa cells were fixed in 2% paraformaldehyde/PBS and then permeabilized in 90% methanol. Cells were stained with anti-CBFA2T2 mAb (shaded) or isotype control (unshaded) followed by Alexa Fluor® 488-conjugated goat anti-mouse IgG. [Lot No. CBF51134-2]