

## **ETO-2 Polyclonal Antibody**

Catalog No: YT1643

**Reactivity:** Human; Mouse

**Applications:** IHC;IF;ELISA

Target: ETO-2

Gene Name: CBFA2T3

**Protein Name:** Protein CBFA2T3

O75081

O54972

Human Gene Id: 863

**Human Swiss Prot** 

No:

Mouse Gene ld: 12398

**Mouse Swiss Prot** 

No:

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

MTG16. AA range:261-310

**Specificity:** ETO-2 Polyclonal Antibody detects endogenous levels of ETO-2 protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution :** IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight: 71kD

### **Background:**

This gene encodes a member of the myeloid translocation gene family which interact with DNA-bound transcription factors and recruit a range of corepressors to facilitate transcriptional repression. The t(16;21)(q24;q22) translocation is one of the less common karyotypic abnormalities in acute myeloid leukemia. The translocation produces a chimeric gene made up of the 5'-region of the runt-related transcription factor 1 gene fused to the 3'-region of this gene. This gene is also a putative breast tumor suppressor. Alternative splicing results in transcript variants. [provided by RefSeq, Nov 2010],

#### **Function:**

disease:A chromosomal aberration involving CBFA2T3 is found in therapy-related myeloid malignancies. Translocation t(16;21)(q24;q22) that forms a RUNX1-CBFA2T3 fusion protein.,function:Functions as a transcriptional repressor. Regulates the proliferation and the differentiation of erythroid progenitors by repressing the expression of TAL1 target genes. Plays a role in granulocyte differentiation. Isoform 2 functions as an A-kinase-anchoring protein (PubMed:11823486).,induction:Down-regulated by all-trans retinoic acid.,similarity:Belongs to the CBFA2T family.,similarity:Contains 1 MYND-type zinc finger.,similarity:Contains 1 TAFH (NHR1) domain.,subcellular location:The RUNX1-CBFA2T3 fusion protein localizes to the nucleoplasm.,subunit:Component of a TAL-1 complex composed at least of CBFA2T3, LDB1, TAL1 and TCF3 (By similarity). Heterodimer with RUNX1T1 and CBFA2T2. Interacts with ERBB4,

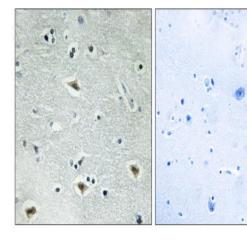
# Subcellular Location:

[Isoform 1]: Nucleus, nucleolus. The RUNX1-CBFA2T3 fusion protein localizes to the nucleoplasm.; [Isoform 2]: Nucleus, nucleoplasm . Golgi apparatus membrane .

### **Expression:**

Widely expressed with higher expression in heart, pancreas, skeletal muscle, spleen, thymus and peripheral blood leukocytes. Expressed in hematopoietic cells (at protein level).

## **Products Images**



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using MTG16 Antibody. The picture on the right is blocked with the synthesized peptide.