

ETO-2 (C-20): sc-9739

BACKGROUND

ETO and ETO-2, which are alternatively designated MTG8 and MTG16, respectively, are members of the ETO transcription factor family. These transcription factors are characterized by a zinc-finger domain and four conserved domains, of which domain II is required for dimerization between family members. ETO and ETO-2 may function to mediate interactions between DNA binding proteins and transcriptional regulators, such as N-CoR. Frequently, the t(8;21) translocation of ETO produces the AML-1/ETO oncoprotein, which consists of the first 177 amino acids of AML-1 and all but the first 30 amino acids of ETO. AML-1/ETO expression is observed in 12–15% of acute myelogenous, M2 subtype leukemias. The AML-1/ETO fusion proteins associate with multi-meric N-CoR/mSin3/HDAC1 complexes, block differentiation and induce transcriptional repression by altering chromatin remodeling.

CHROMOSOMAL LOCATION

Genetic locus: CBFA2T3 (human) mapping to 16q24.3; Cbfa2t3 (mouse) mapping to 8 E1.

SOURCE

ETO-2 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of ETO-2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9739 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-9739 X, 200 µg/0.1 ml.

APPLICATIONS

ETO-2 (C-20) is recommended for detection of ETO-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ETO-2 siRNA (h): sc-35344, ETO-2 siRNA (m): sc-35345, ETO-2 shRNA Plasmid (h): sc-35344-SH, ETO-2 shRNA Plasmid (m): sc-35345-SH, ETO-2 shRNA (h) Lentiviral Particles: sc-35344-V and ETO-2 shRNA (m) Lentiviral Particles: sc-35345-V.

ETO-2 (C-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

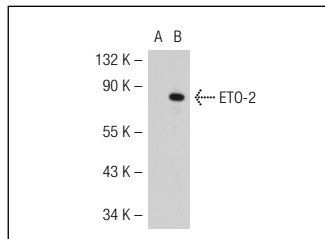
Molecular Weight of ETO-2: 76 kDa.

Positive Controls: HuT 78 whole cell lysate: sc-2208, HL-60 whole cell lysate: sc-2209 or ETO-2 (h): 293T Lysate: sc-116819.

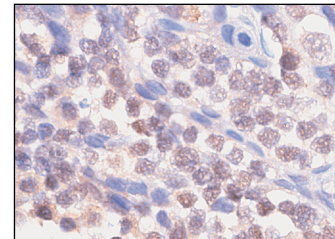
STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA



ETO-2 (C-20): sc-9739. Western blot analysis of ETO-2 expression in non-transfected: sc-117752 (A) and human ETO-2 transfected: sc-116819 (B) 293T whole cell lysates.



ETO-2 (C-20): sc-9739. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human tonsil showing nuclear localization.

SELECT PRODUCT CITATIONS

1. Qiu, J., et al. 2006. Decreased intranuclear mobility of acute myeloid leukemia 1-containing fusion proteins is accompanied by reduced mobility and compartmentalization of core binding factor β . *Oncogene* 25: 3982-3993.
2. Tripic, T., et al. 2009. SCL and associated proteins distinguish active from repressive GATA transcription factor complexes. *Blood* 113: 2191-2201.
3. Kiefer, C.M., et al. 2011. Distinct Ldb1/NLI complexes orchestrate γ -globin repression and reactivation through ETO2 in human adult erythroid cells. *Blood* 118: 6200-6208.
4. Kim, S., et al. 2012. Chromatin structure of the LCR in the human β -globin locus transcribing the adult δ - and β -globin genes. *Int. J. Biochem. Cell Biol.* 44: 505-513.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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Try **ETO-2 (C-12): sc-373691** or **ETO-2 (D-4): sc-166058**, our highly recommended monoclonal alternatives to ETO-2 (C-20).