MTGR1 (CBF5I134): sc-81326

BACKGROUND
MTGR1 (CBFA2T2, ETO homologous on chromosome 20) is a 604 amino acid protein encoded by the human CBFA2T2 gene. MTGR1 belongs to the CBFA2T family and contains one MYND-type (myeloid translocation protein 8, Nervy and DEAF-1) zinc finger and one TAFH (TBP-associated factor) domain. MTGR1 may function as a complex with the chimeric protein RUNX1/AML1-CBFA2T1/MTG8 which is produced in acute myeloid leukemia with the chromosomal translocation t(8;21). Through this complex MTGR1 may cause the repression of AML1-dependent transcription and the induction of G-CSF/CSF3-dependent cell growth. It is also believed to be a tumor suppressor gene candidate for myeloid tumors with the deletion of the 20q11 region. MTGR1 forms both a homo-oligomer and hetero-oligomer with MTG8 and is ubiquitously expressed in fetal and adult tissues. It is highly expressed in adult brain, heart, lung, kidney, lymph node, appendix, thymus, testis, uterus, small intestine, prostate and thymus. Deletion of the CBFA2T2 gene has been described in 10%, 5% and 3% of cases in polycythemia vera (PV), myelodysplastic syndromes (MDS) and acute myeloid leukemia (AML), respectively.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: CBFA2T2 (human) mapping to 20q11.

SOURCE
MTGR1 (CBF5I134) is a mouse monoclonal antibody raised against a recombinant protein corresponding to the C-terminal region of MTGR1 of human origin.

PRODUCT
Each vial contains 100 µg IgG, in 1.0 ml of PBS with < 0.1% sodium azide and 1.0% stabilizer protein.

APPLICATIONS
MTGR1 (CBF5I134) is recommended for detection of MTGR1 expression by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

DATA

STORAGE
For immediate and continuous use, store at 4°C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

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

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