

Datasheet for 100-401-V08**ETO Antibody****Overview**

Description:	Anti-ETO (RABBIT) Antibody - 100-401-V08
Item No.:	100-401-V08
Size:	100 µL
Applications:	ChIP, ELISA
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	ETO is a transcriptional regulator which belongs to the myeloid translocation gene family. ETO exerts its function by interaction with transcription factors bound to promoters and binding to histone deacetylases. It recruits a range of corepressors to facilitate transcriptional repression. The t(8;21)(q22;q22) translocation is one of the most frequent karyotypic abnormalities in acute myeloid leukemia. This translocation produces a chimeric gene made up of the 5'-region of AML1 and the 3'-region of the ETO gene. The chimeric protein is thought to associate with the nuclear corepressor/histone deacetylase complex to block hematopoietic differentiation. Anti-ETO Antibody is ideal for research in Gene Expression, Transcription and Cancer.
Synonyms:	Protein CBFA2T1, Cyclin-D-related protein, Eight twenty one protein, Protein ETO, Protein MTG8, Zinc finger MYND domain-containing protein 2, AML1T1, CBFA2T1, CDR, ETO, MTG8, ZMTND2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	RUNX1T1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-ETO Antibody was produced in rabbits by repeated immunizations with human ETO using two synthetic peptides containing sequences from the N-terminal and internal region of the protein respectively.
Purity/Specificity:	Anti-ETO Antibody is monospecific antiserum processed by delipidation and defibrination followed by sterile filtration. This product reacts with human ETO. Cross reactivity with ETO from other sources is not known.
Relevant Links:	• UniProtKB - Q06455 • GeneID - 862 • NCBI - NP_001185554.1

Application Details

Tested Applications:	ChIP, ELISA
Application Note:	Anti-ETO Antibody has been tested in ChIP and ELISA. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ChIP:	4 µl/ChIP
ELISA:	1:100

Formulation

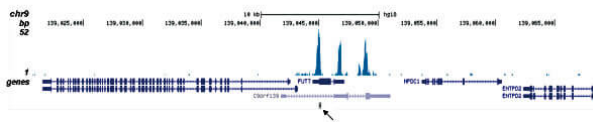
Physical State:	Liquid (sterile filtered)
Concentration:	neat
Buffer:	None
Preservative:	0.05% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

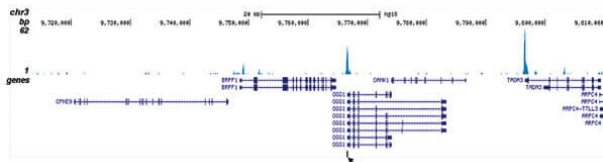
Expiration: Expiration date is one (1) year from date of receipt.

Images



ChIP

ChIP-seq results of anti-ETO antibody. ChIP was performed as described in figure 1. The IP'd DNA of 6 ChIP's were pooled and analysed with an Illumina Genome Analyzer. Library preparation, cluster generation, and sequencing were performed according to the manufacturer's instructions. The 32 bp tags were aligned to the human reference genome (hg18) using the ELAND algorithm. Figure 2 shows the results of the complete chromosome 3. Figures 3-5 shows three genomic regions surrounding the OGG1, FUT7 and NFE2 genes, respectively. The position of the PCR amplicon is indicated with an arrow.

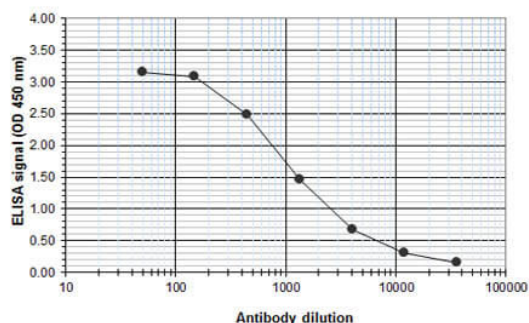


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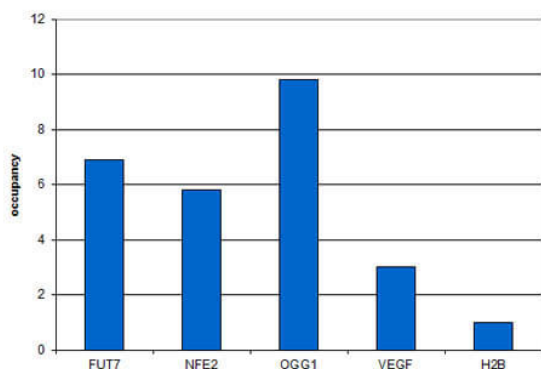
ELISA

ELISA results of Rabbit anti-human ETO antibody. Antigen: BSA conjugated ETO. Coating amount: 0.1 µg per well. Dilution series: serial dilution. Estimated Antibody Titer to be 1:1,300. Substrate: TMB (p/n TMBE-1000).



ChIP

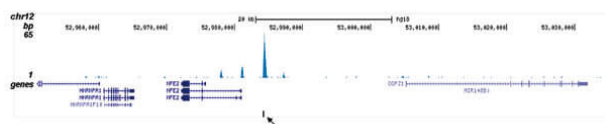
Chromatin Immunoprecipitation results of Rabbit Anti-human ETO Antibody. Chromatin from 1.25 million formaldehyde cross-linked SKNO-1 cells was used with 4ul of Anti-human ETO Antibody and 20ul of magnetic IgG beads per immunoprecipitation. QPCR was performed using primers specific for the FUT7, NFE2, OGG1 and VEGF genes. ChIP results shows the occupancy, calculated as the ratio + control/background for which the H2B gene was used.



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Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.