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Anti-Myosin-11 MYH11 Antibody

Catalog Number: CI1028

About MYH11

MYH11 is a smooth muscle myosin belonging to the myosin heavy chain family which function as major contractile proteins. MYH11 is involved in a pericentric inversion of chromosome 16 (inv (16) (p13q22)) which produces a chimeric transcript consisting of the N terminus of CBFb and the C-terminal portion MYH11. This chromosomal rearrangement is associated with acute myeloid leukemia of the M4Eo subtype.References citing this antibody (1) Mandoli A, Singh AA, Jansen PWTC, Wierenga ATJ, Riahi H, Franci G, Prange K, Saeed S, Vellenga E, Vermeulen M, Stunnenberg HG and Martens JHA (2013) CBFB–MYH11/RUNX1 together with a compendium of hematopoietic regulators, chromatin modifiers and basal transcription factors occupies self-renewal genes in inv (16) acute myeloid leukemia. Leukemia: 1-9.

Overview

Product Name	Anti-Myosin-11 MYH11 Antibody
Reactive Species	Human
Description	Boster Bio Anti-Myosin-11 MYH11 Antibody (Catalog# CI1028). Tested in ChIP, ChIP-seq, ELISA, WB applications. This antibody reacts with Human.
Application	ChIP, ChIP-seq, ELISA, WB
Clonality	Polyclonal
Formulation	Whole antiserum from rabbit containing 0.05% azide.
Storage Instructions	Store at -20°C. For long-term storage, store at -80°C. Avoid multiple freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P35749

Technical Details

Immunogen	This antibody is raised in rabbit against human MYH11 (Myosin, Heavy Chain 11) using two KLH-conjugated synthetic peptides containing sequences from the C-terminal region of the protein.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. Boster recommends high sensitivity ChIP-seq Kit (CK1001 & CK1002) for Chromatin Immunoprecipitation.
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Whole antiserum

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: User needs to optimize the dilution ratio for this antibody.

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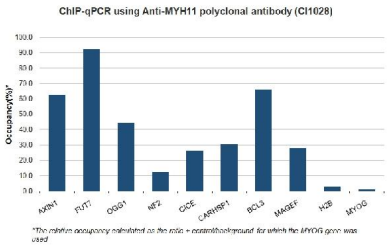
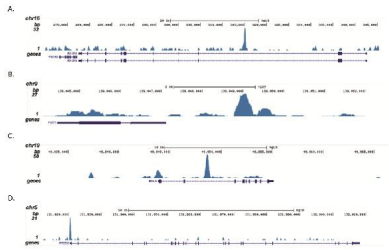
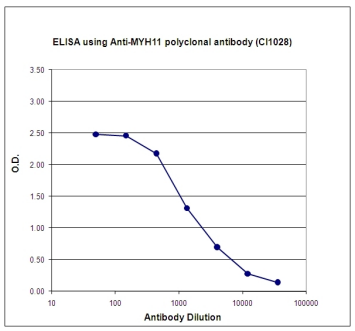
Anti-Myosin-11 MYH11 Antibody (CI1028) Images



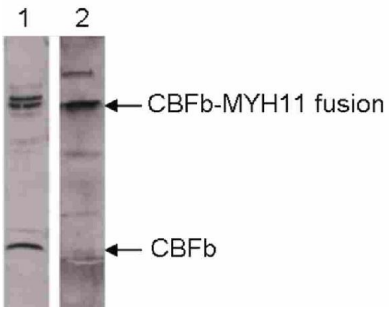
ChIP assays were performed using ME-1 cells, Anti-MYH11 polyclonal antibody (Catalog # CI1028) and optimized primer pairs for qPCR. QPCR was performed using primers specific for the genes indicated.



ChIP was performed with 5 ul of Anti-MYH11 polyclonal antibody (Catalog # CI1028)on sheared chromatin from 1.5 million cells. The IP DNA from 6 ChIP was pooled and subsequently analysed on an Illumina HiSeq 2000. Library preparation, cluster generation and sequencing were performed according to the manufacturer instructions. The 50 bp tags were aligned to the human genome using the BWA algorithm. Figure 2 shows the signal in 4 genomic regions surrounding the AXIN1, FUT7, BCL3 and RAD50 positive control genes.



To determine the titer of the antibody, an ELISA was performed using a serial dilution of Anti-MYH11 polyclonal antibody (Catalog # CI1028). The plates were coated with the peptides used for immunization of the rabbit. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:1,900.



Western blot analysis of MYH11 expression in nuclear extracts from ME-1 cells. CBFb was detected using Anti-CBFb antibody, whereas CBFb-MYH11 fusion proteins were detected using Anti-CBFb antibody and MYH11 polyclonal antibody (Catalog # CI1028) at 1/1000 dilution.