BOSTER BIOLOGICAL TECHNOLOGY
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Anti-AFF4 Picoband® Antibody (monoclonal, 8G12)

Catalog Number: M03824

About AFF4

The AFF4 gene encodes a scaffold protein that functions as a core component of the super elongation complex (SEC), which is involved in transcriptional regulation during embryogenesis. The protein encoded by this gene belongs to the AF4 family of transcription factors involved in leukemia. It is a component of the positive transcription elongation factor b (P-TEFb) complex. This gene is mapped to chromosome 5q31.

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Overview

Product Name	Anti-AFF4 Picoband® Antibody (monoclonal, 8G12)
Reactive Species	Human
Description	Boster Bio Anti-AFF4 Picoband® Antibody (monoclonal, 8G12) catalog # M03824. Tested in Flow Cytometry, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, WB
Clonality	Monoclonal 8G12
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	Q9UHB7

Technical Details

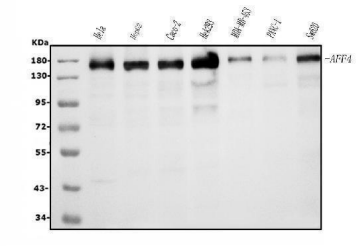
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human AFF4, identical to the related mouse sequence.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot.

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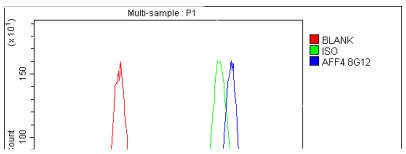
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5ug/ml, Human Flow Cytometry (Fixed), 1-3ug/1x10^6 cells, Human Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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Anti-AFF4 Picoband® Antibody (monoclonal, 8G12) (M03824) Images



Western blot analysis of AFF4 using anti-AFF4 antibody (M03824). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HELA whole cell lysates, Lane 2: human HEPG2 whole cell lysates, Lane 3: human CACO-2 whole cell lysates, Lane 4: human HEK293 whole cell lysates, Lane 5: human MDA-MB-453 whole cell lysates, Lane 6: human PANC-1 whole cell lysates, Lane 7: human SW620 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-AFF4 antigen affinity purified monoclonal antibody (Catalog # M03824) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for AFF4 at approximately 150KD. The expected band size for AFF4 is at 150KD.



Flow Cytometry analysis of 293T cells using anti-AFF4 antibody (M03824). Overlay histogram showing 293T cells stained with M03824 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti- AFF4 Antibody (M03824, 1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

For Research Use Only. Not for use in diagnostic procedures.