

Anti-Centromere protein O CENPO Antibody

Catalog Number: A11021

Introduction

CD3epsilon is a 20kD chain, which together with CD3lambda, CD3delta, and CD3zeta, and a T cell receptor (alpha/beta or gamma/delta) form the CD3/T-cell receptor complex. It is a specific marker for T lymphocytes, NK T cells, and some thymocytes. Crosslinking of TCR initiates an intracellular signaling cascade resulting in cellular activation and proliferation. The OKT3 antibody has been reported to have potent immunosuppressive properties in vivo and has been proved effective in the treatment of renal, heart, and liver allograft rejection.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development or are reported in the literature.

Application Information

Each lot of this antibody has been quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of this antibody is $\leq 0.5\mu\text{g}$ per 1×10^6 cells in $100\mu\text{l}$ of staining volume followed by a secondary fluorescent conjugated anti-mouse antibody. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

About CENPO

Accurate chromosome segregation during mitosis requires a kinetochore to assemble correctly at the centromere of each chromatid and form a dynamic interface with the microtubules of the mitotic spindle. The kinetochore assembly includes the multisubunit CENP-H/I complex which can be divided into three functional classes based on phenotype analysis. One of these classes is referred to as the CENP-O class of proteins of which CENPO is the exemplar. These proteins form a stable complex with each other and are required for proper kinetochore function and for recovery from mitotic spindle damage. CENPO has also been shown to be an auto-antigen in a small population of anti-centromere antibodies- (ACA-) positive patients with scleroderma.

Overview

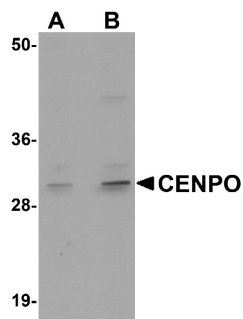
Product Name	Anti-Centromere protein O CENPO Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Centromere protein O CENPO Antibody (Catalog # A11021). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	Biotin
Application	ELISA, WB
Clonality	Polyclonal SK7
Formulation	CENPO Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	CENPO antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid

	repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9BU64

Technical Details

Immunogen	CENPO antibody was raised against a 16 amino acid synthetic peptide from near the center of human CENPO. The immunogen is located within amino acids 170 - 220 of CENPO.
Predicted Reactive Species	Bovine
Cross Reactivity	At least three isoforms of MTERFD1 are known to exist. MTERFD1 antibody is predicted to not cross-react with other MTERFD protein family members.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	CENPO Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>CENPO antibody can be used for detection of CENPO by Western blot at 1 - 2 ug/mL.</p> <p>Antibody validated: Western Blot in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p>

Anti-Centromere protein O CENPO Antibody (A11021) Images



Western blot analysis of CENPO in mouse kidney tissue lysate with CENPO antibody at (A) 1 and (B) 2 ug/mL.

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