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antibody and ELISA experts

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Anti-Akirin-2 Akirin2 Antibody

Catalog Number: A08948-1

Introduction

CD3epsilon is a 20kD chain, which together with CD3lambda, CD3delta, and CD3zeta, and a T cell receptor (alpha/beta or gamma/) 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 ≤ 0.5µg per 1x106 cells in 100µl of staining volume followed by a secondary florescent 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 AKIRIN2

The highly conserved, nuclear-localized Akirin1 and Akirin2 proteins critically regulate the transcription of NF-kappaB-dependent genes and are required for defense against Gram-negative bacteria in the immune deficiency and NF-kappaB pathways. Akirin1 is dispensable in the mouse, and neither knockout mice nor cells derived from them have obvious distinctive phenotypes. In contrast, Akirin2 is required for development in the mouse and knockout of both Akirin homologs in mice show that Akirin2 is required downstream of toll-like receptor (TLR), TNF-alpha and IL-1beta signaling, and for the production of IL-6. Akirin2 is functionally closer to the single gene in Drosophila, as the homozygous null D. melanogaster Akirin mutants show a similar, mid-to-early embryonic death.

Overview

Product Name	Anti-Akirin-2 Akirin2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Akirin-2 Akirin2 Antibody (Catalog # A08948-1). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	Biotin
Application	ELISA, WB
Clonality	Polyclonal SK7
Formulation	Akirin2 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	Akirin2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid

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	repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q53H80

Technical Details

Immunogen	Akirin2 antibody was raised against a 15 amino acid synthetic peptide near the center of the human Akirin2. The immunogen is located within amino acids 80 - 130 of Akirin2.
Predicted Reactive Species	Bovine
Cross Reactivity	At least two isoforms of ZIP13 are known to exist; this antibody will detect both isoforms. ZIP13 antibody is predicted to not cross-react with other ZIP family members.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	Akirin2 Antibody is affinity chromatography purified via peptide column.
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: Akirin2 antibody can be used for detection of Akirin2 by Western blot at 0.5 ug/mL. Antibody validated: Western Blot in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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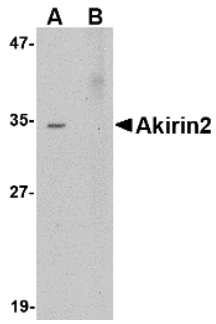
Anti-Akirin-2 Akirin2 Antibody (A08948-1) Images



Western blot analysis of Akirin2 in Human Brain tissue lysate with Akirin2 antibody at 0.5 ug/mL in (A) the absence and (B) the presence ofblocking peptide.

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