

Anti-SIGIRR Antibody

Catalog Number: A03373

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 SIGIRR

SIGIRR is a member of the Toll-like receptor-interleukin 1 receptor superfamily. Members of this family are defined by the presence of an intracellular Toll-IL-1R (TIR) domain. The Toll-like receptors (TLRs) are signaling molecules that recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses. SIGIRR was originally identified through database analysis and was shown to have only one Ig domain as opposed to the normal three Ig folds seen in the TIR family. Similar to ST2, another TIR family member, it has been shown to negatively regulate IL-1 receptor and Toll-like receptor signaling. However, SIGIRR inhibits TLR-IL-1R signaling by dimerizing with TLR4, TLR5, TLR9, and IL-1R. It also associates with the down-stream TLR signaling proteins IRAK and TRAF6 in an IL-1-dependent fashion.

Overview

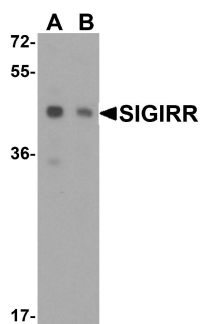
Product Name	Anti-SIGIRR Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-SIGIRR Antibody (Catalog # A03373). Tested in ELISA, WB, ICC applications. This antibody reacts with Human, Mouse.
Conjugate	Biotin
Application	ELISA, ICC, WB
Clonality	Polyclonal SK7
Formulation	SIGIRR Antibody is supplied in PBS containing 0.02% sodium azide.

Storage Instructions	SIGIRR 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	Q6IA17

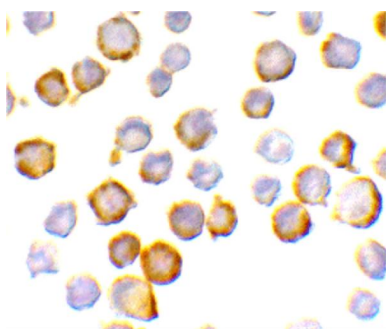
Technical Details

Immunogen	SIGIRR antibody was raised against a synthetic peptide corresponding to 15 amino acids at the C-terminus of human SIGIRR. The immunogen is located within the last 50 amino acids of SIGIRR.
Predicted Reactive Species	Rat
Cross Reactivity	At least three isoforms of TET3 are known to exist. TET3 antibody is predicted to not cross react with other TET proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	SIGIRR 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: Boster Bio's internal QC testing used:</p> <p>SIGIRR antibody can be used for the detection of SIGIRR by Western blot at 1 ug/mL. Antibody can also be used for immunocytochemistry starting at 10 ug/mL.</p> <p>Antibody validated: Western Blot in human samples and Immunocytochemistry in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p>

Anti-SIGIRR Antibody (A03373) Images



Western blot analysis of SIGIRR expression in (A) A549 and (B) MCF7 cell lysate with SIGIRR antibody at 1 ug/ml.



Immunocytochemistry of SIGIRR in A549 cells with SIGIRR antibody at 10 ug/mL.

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