



Rabbit Anti-SIGIRR Monoclonal Antibody, clone 127 (CABT-Z387R)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	No cross-reactivity in ELISA with Mouse SIGIRR, Human IL1R1, Human IL1R2, Human IL1R3, Human IL1R7, Human IL1R8, Human IL1R9, Human IL18R1.
Immunogen	Recombinant Human SIGIRR / TIR8 protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	127
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA Recommended dilution: ELISA: 1:5000-1:10000
Format	Liquid
Concentration	Lot specific
Size	100 µl
Buffer	PBS
Preservative	None

Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	Single Ig IL-1-related receptor (SIGIRR) or TIR8 is a member of Toll-like receptor-interleukin 1 receptor signaling (TLR-IL-1R) receptor superfamily. Although SIGIRR/TIR8 shows the typical conserved motifs that characterize the IL-1R and Toll superfamily, it is structurally and functionally distinct from both. SIGIRR/TIR8 has only one Ig domain in its extracellular portion whereas the IL-1R family contains three Ig folds. An unusually long cytoplasmic domain is reminiscent of the structure of drosophila Toll, yet the SIGIRR peptide sequence is more closely related to IL-1RI. SIGIRR/TIR8 was mainly expressed in mouse and human epithelial tissues such as kidney, lung and gut. Resting and activated T and B lymphocytes and monocytes-macrophages expressed little or no SIGIRR/TIR8, with the exception of the mouse GG2EE macrophage line. Inflammation is enhanced in SIGIRR-deficient mice. SIGIRR negatively modulates immune responses. Inflammation is enhanced in SIGIRR-deficient mice, as shown by their enhanced chemokine induction after IL-1 injection and reduced threshold for lethal endotoxin challenge.
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Keywords	SIGIRR;single immunoglobulin and toll-interleukin 1 receptor (TIR) domain;single Ig IL-1-related receptor;single immunoglobulin domain IL1R1 related;TIR8;toll/interleukin-1 receptor 8
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GENE INFORMATION

Gene Name	SIGIRR
Entrez Gene ID	59307
UniProt ID	Q6IA17