Mouse Anti-Human Leukocyte immunoglobulin-like receptor subfamily B member 3 Monoclonal Antibody

Cat. No. CAB11579MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human Leukocyte immunoglobulin-like receptor subfamily B member 3
Species	Human
Source	Mouse
Antigen Description	Leukocyte immunoglobulin-like receptor subfamily B member 3, also known as Leukocyte immunoglobulin-like receptor 3, Immunoglobulin-like transcript 5, Monocyte inhibitory receptor HL9, CD85 antigen-like family member A, CD85a and LILRB3, is a single-pass type Imembrane protein which belongs to the leukocyte receptor cluster (LRC) present on 19q13.4. LILRB3 / CD85a contains four Ig-like C2-type (immunoglobulin-like) domains. LILRB3 / CD85a contains three copies of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases. LILRB3 / CD85a is expressed on immune cells where it binds to MHC class I molecules on antigen-presenting cells and transduces a negative signal that inhibits stimulation of an immune response. It is thought to control inflammatory responses and cytotoxicity to help focus the immune response and limit autoreactivity. Multiple transcript variants encoding different isoforms have been found.

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Specificity	Human LILRB3. No cross-reactivity with human cell lysate (293 cell line) in ELISA.
Immunogen	Recombinant Human LILRB3 Protein
Isotype	N/A
Cross Reactivity	8A11F10A4
Clone	9B12G11B5
Applications	WB
Dilution	Western blot: This antibody can be used at 1-2 μg/mL with the appropriate secondary reagents to detect Human LILRB3 in WB. Using a DAB detection system, the detection limit for Human LILRB3 is approximately 1 ng/lane under non-reducing conditions and reducing conditions.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant Human LILRB3 (rh LILRB3; NP_006855.2; Met 1 - Glu 443). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 μm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

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GENE INFORMATION

Gene Name	LILRB3 leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 [Homo sapiens]
Official Symbol	LILRB3
Synonyms	LILRB3; leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3; leukocyte immunoglobulin-like receptor subfamily B member 3; CD85a; HL9; ILT5; LIR 3; LIR3; immunoglobulin-like transcript 5; monocyte inhibitory receptor HL9; CD85 antigen-like family member A; leukocyte immunoglobulin-like receptor 3; PIRB; CD85A; ILT-5; LIR-3; MGC138403;
Gene ID	11025
mRNA Refseq	NM_001081450
Protein Refseq	NP_001074919
MIM	604820
UniProt ID	O75022
Chromosome Location	19q13.4
Pathway	Adaptive Immune System, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway, conserved biosystem; Immune System, organism-specific biosystem; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell, organism-specific biosystem; Osteoclast differentiation, organism-specific biosystem; Osteoclast

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	differentiation, conserved biosystem;
Function	protein binding; receptor activity; transmembrane signaling receptor activity;

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