$78144\,$ Store at -200

LILRB1/CD85j (D4L8L) Rabbit



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Applications:	Reactivity:	Sensitivity: Endogenous	MW (kDa):	Source/Isotype: Rabbit IgG	UniProt ID: #Q8NHL6	Entrez-Gene Id 10859	
VVD		Endogenous		Rabbit igG	#QONITEO	10059	
Product Usage Information	Ар	Application			Dilution		
	We	stern Blotting		1:1000			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.					
Specificity / Sensi		LILRB1/CD85j (D4L8L) Rabbit mAb recognizes endogenous levels of total LILRB1/CD85J protein. This antibody does not cross-react with LILRB2 protein.					
~ · · · · · · · · · · · · · · · · · · ·				ced by immunizing animals with a synthetic peptide corresponding to of human LILRB1/CD85j protein.			
Background		The leukocyte Ig-like receptor subfamily B (LILRB) are type-I transmembrane glycoproteins containing ligand binding extracellular IgG-like domains and immunoreceptor tyrosine-based inhibition motifs (ITIMS) within the cytoplasmic domain, which recruit SHP protein tyrosine phosphatases, leading to transduction of signals that inhibit immune cell activation. Encoded within a region of chromosome 19 known as the leukocyte receptor complex, the LILRB subfamily of inhibitory receptors consists of LILRB1 to LILRB5, also referred to as CD85J, CD85D, CD85A, CD85K, and CD85C, respectively (1). There is mounting evidence that LILRBs function, in part, as a novel class of immune checkpoint receptors and support tumor growth through the transmission of inhibitory signals upon engagement of ligands expressed on tumor cells (2). LILRB1 (CD85j/ILT2/LIR1) is expressed across multiple hematopoietic cell lineages, such as B-cells, NK					

Background References

- 1. Allan, D.S. et al. (2000) Immunobiology 202, 34-41.
- 2. Roberti, M.P. et al. (2015) Eur J Immunol 45, 1560-9.
- 3. Colonna, M. et al. (1997) J Exp Med 186, 1809-18.
- 4. Samaridis, J. and Colonna, M. (1997) Eur J Immunol 27, 660-5.
- 5. Borges, L. et al. (1997) J Immunol 159, 5192-6.
- 6. Shiroishi, M. et al. (2003) Proc Natl Acad Sci U S A 100, 8856-61.

studies have shown that LILRB1 transduces signaling to inhibit cytolytic activity (3).

7. Naji, A. et al. (2014) J Immunol 192, 1536-46.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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cells, monocytes, and T-cells (3,4). Like other members of the LILRB subfamily, LILRB1 contains multiple extracellular IgG-like domains and intracellular ITIM motifs (5). Research studies have demonstrated that LILRB1 interacts with multiple HLA class I ligands, such as HLA-G (6). Cross-linking of LILRB1 upon ligand engagement has been shown to activate immunosuppressive signaling cascades, which in B-cells, suppresses their activation and ability to produce antibodies (7). In NK and T cell lineages, research

information.

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Limited Uses

LILRB1/CD85j (D4L8L) Rabbit mAb (#78144) Datasheet Without Images Cell Signaling Technology

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