

For Research Use Only

CD244 Recombinant antibody, PBS Only (Detector)

Catalog Number: 84086-1-PBS



Basic Information

Catalog Number: 84086-1-PBS	GenBank Accession Number: BC053985	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 51744	CloneNo.: 241260C6
Source: Rabbit	UNIPROT ID: Q9BZW8	
Isotype: IgG	Full Name: CD244 molecule, natural killer cell receptor 2B4	
	Calculated MW: 365 aa, 41 kDa	
	Observed MW: 70 kDa	

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

84086-1-PBS targets CD244 as part of a matched antibody pair:

MP01008-3: 84086-2-PBS capture and 84086-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

CD244, also known as SLAMF4 or 2B4, is a type I transmembrane glycoprotein belonging to the signaling lymphocyte activation molecule (SLAM) family. It consists of an extracellular segment with two immunoglobulin (Ig)-like domains, a transmembrane region, and a cytoplasmic domain containing tyrosine-based motifs (PMID: 9841922; 30546369). CD244 is present on natural killer (NK) cells, $\gamma\delta$ T cells, a subset of CD8⁺ T cells, monocytes, basophils, dendritic cells, and myeloid-derived suppressor cells (MDSCs) (PMID: 30546369). It binds to CD48 with high affinity and transmits stimulatory or inhibitory signals that regulate immune function (PMID: 9841922; 18523281).

Storage

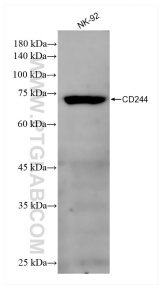
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

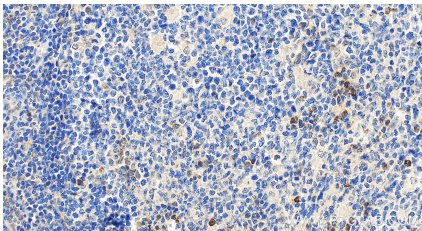
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

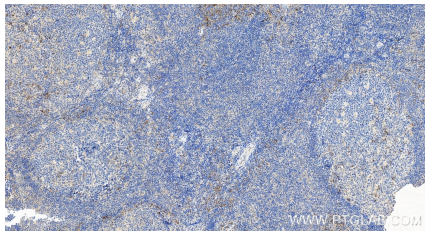
Selected Validation Data



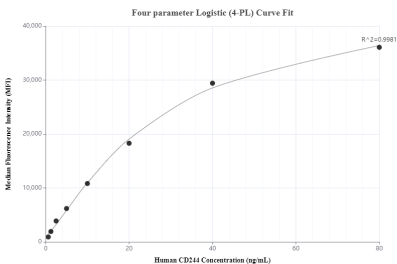
NK-92 cells were subjected to SDS PAGE followed by western blot with 84086-1-RR (CD244 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84086-1-PBS in a different storage buffer formulation.



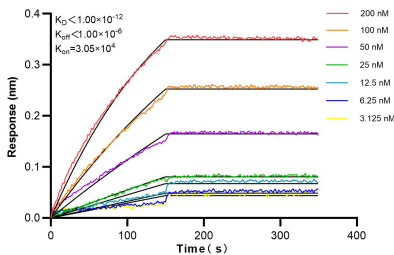
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84086-1-RR (CD244 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84086-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84086-1-RR (CD244 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84086-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01008-3, CD244 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84086-2-PBS. Detection antibody: 84086-1-PBS. Standard: Eg32087. Range: 0.625-80 ng/mL



Biolayer interferometry (BLI) kinetic assays of 84086-1-RR against Human CD244 were performed. The affinity constant is below 1 pM.