

For Research Use Only

Mouse CD34 Recombinant antibody, PBS Only (Capture)

Catalog Number: 83713-2-PBS



Basic Information

Catalog Number: 83713-2-PBS	GenBank Accession Number: NM_133654	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 12490	CloneNo.: 240659C7
Source: Rabbit	UNIPROT ID: Q64314	
Isotype: IgG	Full Name: CD34 antigen	
	Calculated MW: 41 kDa	
	Observed MW: 105 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, Cytometric bead array, Indirect ELISA

Species Specificity:
mouse

Product Information

83713-2-PBS targets CD34 as part of a matched antibody pair:

MP00684-1: 83713-2-PBS capture and 83713-4-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

CD34 is a 105- to 120-kDa glycoprophosphoprotein expressed on the majority of hematopoietic stem/progenitor cells, bone marrow stromal cells, capillary endothelial cells, embryonic fibroblasts, and some nerve tissue. CD34 is a commonly used marker for identifying human hematopoietic stem/progenitor cells and mediates cell adhesion and lymphocyte homing by binding L-selectin and E-selectin ligands. CD34 is also one of the best negative selection markers for characterizing and/or isolating human MSCs from bone marrow and other sources. Along with other positive selection markers (such as CD29, CD44, CD90, CD105 and CD166), negative selection markers (such as CD34 and CD45) are used for MSC identification.

Storage

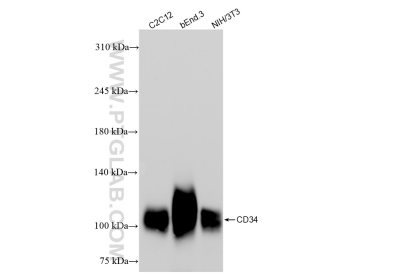
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

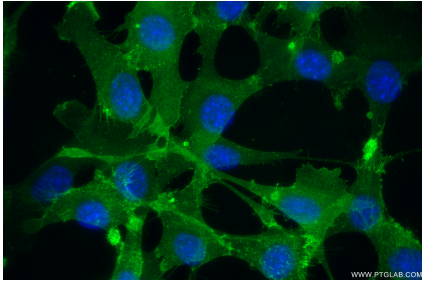
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

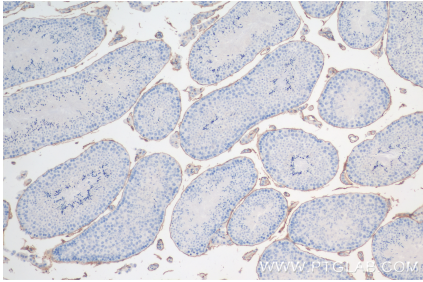
Selected Validation Data



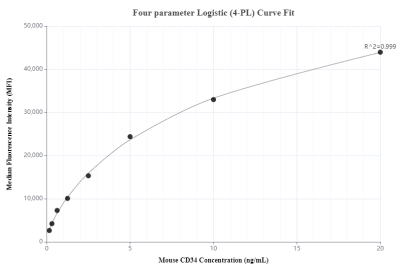
Various lysates were subjected to SDS PAGE followed by western blot with 83713-2-RR (CD34 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83713-2-PBS in a different storage buffer formulation.



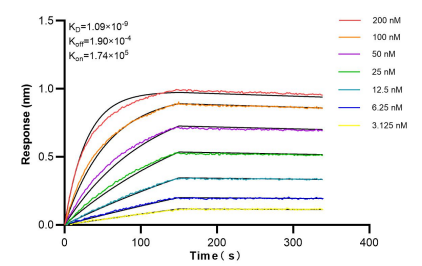
Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using CD34 antibody (83713-2-RR, Clone: 240659C7) at dilution of 1:250 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83713-2-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 83713-2-RR (CD34 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83713-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00684-1, MOUSE CD34 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83713-2-PBS. Detection antibody: 83713-4-PBS. Standard: Eg0854. Range: 0.156-20 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 83713-2-RR against Mouse CD34 were performed. The affinity constant is 1.09 nM.