

Datasheet: AHP2183B

Description:	RABBIT ANTI HUMAN CD54:Biotin
Specificity:	CD54
Other names:	ICAM-1
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			0.25 - 1.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG conjugated to Biotin - lyophilized
Reconstitution	Reconstitute with 0.5ml sterile PBS containing 0.1% bovine serum albumin Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.
Antiserum Preparation	Antiserum to human CD54 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline

Preservative Stabilisers	None present
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 0.1mg/ml after reconstitution
Immunogen	Recombinant human CD54.
External Database Links	<p>UniProt: P05362 Related reagents</p> <p>Entrez Gene: 3383 ICAM1 Related reagents</p>
RRID	AB_10841631
Specificity	<p>Rabbit anti Human CD54 antibody recognizes human CD54, otherwise known as Intercellular adhesion molecule 1 or ICAM-1. CD54 is a 532 amino acid single pass type I membrane glycoprotein containing five Ig-like C2-type domains. CD54 is widely expressed and acts as a ligand for the leukocyte integrin LFA-1 (CD11a/CD18) and Mac-1 integrins, it is the major receptor for human rhinovirus(Staunton et al. 1989).</p> <p>CD54 is highly expressed on activated endothelial cells (Favoloro 1993) and plays a role in transendothelial cell migration to sites of acute inflammation, functioning primarily as an adhesion molecule between endothelial cells and leucocytes, following injury or stress (Manes and Pober 2011). Levels of soluble CD54 in serum (Matalliotakis et al. 2001) or urine (Kim et al. 2006), can be potentially used as an indication of infection, inflammation and certain tumour, and as a target for immunosuppression in transplantation.</p>
ELISA	This biotinylated human CD54 antibody may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with our purified human CD54 antibody (AHP2183) as the capture reagent and recombinant human CD54 (PHP250) as the standard.
References	<ol style="list-style-type: none"> Nadlonek, N.A. <i>et al.</i> (2012) Radiation induces osteogenesis in human aortic valve interstitial cells. J Thorac Cardiovasc Surg. 144 (6): 1466-70. Watson, R.L. <i>et al.</i> (2015) Endothelial CD99 signals through soluble adenylyl cyclase and PKA to regulate leukocyte transendothelial migration. J Exp Med. 212 (7): 1021-41.
Storage	<p>Prior to reconstitution store at -20°C. After reconstitution store at -20°C.</p> <p>This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10294 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP2183B>
10294

Regulatory For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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