Datasheet: VPA00014 BATCH NUMBER 090714

Description:	RABBIT ANTI CD54		
Specificity:	CD54		
Other names:	ICAM-1		
Format:	Purified		
Product Type:	PrecisionAb Polyclonal		
Isotype:	Polyclonal IgG		
Quantity:	100 µl		

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
Western Blotting	•			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click here to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

External Database Links	UniProt:
Immunogen	Recombinant human CD54
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Buffer Solution	Phosphate buffered saline
Preparation	Rabbit polyclonal antibody purified by affinity chromatography
Product Form	Purified IgG - liquid
Target Species	Human

P05362 Related reagents

Entrez Gene:

3383 ICAM1 Related reagents

SpecificityRabbit 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).

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 tumors, and as a target for immunosuppression in transplantation.

Rabbit anti Human CD54 antibody recognizes human CD54 as a single band of ~92 kDa in Raji cell line lysates by western blotting under reducing conditions.

Western Blotting	Anti CD54 antibody detects a band of approximately 92 kDa in Raji cell lysates.
References	 Nadlonek, N.A. <i>et al.</i> (2012) Radiation induces osteogenesis in human aortic valve interstitial cells. <u>J Thorac Cardiovasc Surg. 144 (6): 1466-70.</u> Watson, R.L. <i>et al.</i> (2015) Endothelial CD99 signals through soluble adenylyl cyclase and PKA to regulate leukocyte transendothelial migration. <u>J Exp Med. 212 (7): 1021-41.</u>
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
Guarantee	12 months from date of despatch
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/VPA00014

Related Products

Regulatory

Recommended Secondary Antibodies

Antibody (10040)

For research purposes only

Goat Anti Rabbit IgG (H/L) (STAR208...) HRP

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