

Datasheet: VPA00014

BATCH NUMBER 160906

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.

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

Entrez Gene:

[3383](#) ICAM1 [Related reagents](#)

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 tumors, and as a target for immunosuppression in transplantation.</p> <p>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.</p>
Western Blotting	Anti CD54 antibody detects a band of approximately 92 kDa in Raji cell lysates.
References	<ol style="list-style-type: none">1. Nadlonek, N.A. <i>et al.</i> (2012) Radiation induces osteogenesis in human aortic valve interstitial cells. J Thorac Cardiovasc Surg. 144 (6): 1466-70.2. 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	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 Antibody (10040)
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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)
'M370440:200529'

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