

Datasheet: VPA00014

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

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant 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: P05362 Related reagents Entrez Gene: 3383 ICAM1 Related reagents

Specificity

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](#)).

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.
Instructions For Use	Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page.
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
Shelf Life	As supplied, 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: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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