

Datasheet: AHP2318

Description:	RABBIT ANTI CD54 / ICAM-1
Specificity:	CD54 / ICAM-1
Other names:	ICAM
Format:	Purified
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
Western Blotting	■			0.5 - 4.0 ug/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
Species Cross Reactivity	<p>Reacts with: Mouse, Rat</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<p>30% Glycerol</p> <p>0.5% Bovine Serum Albumin</p> <p>0.01% Thiomersal</p>
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

Immunogen Synthetic peptide surrounding amino acid 359 of human CD54 / ICAM-1

External Database

Links

UniProt:

[P05362](#)

[Related reagents](#)

Entrez Gene:

[3383](#)

ICAM1

[Related reagents](#)

Specificity

Rabbit anti CD54 / ICAM-1 antibody recognizes the CD54 antigen also known as intercellular adhesion molecule 1 (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.

Western Blotting

Rabbit anti CD54 / ICAM-1 antibody recognizes a band of approximately 89-92 kDa in rat kidney tissue lysate, 3T3 cell lysate and Jurkat cell lysate

References

1. Hu, X. *et al.* (2021) Bone Marrow Mesenchymal Stem Cell-Derived Exosomal miR-34c-5p Ameliorates Renal Interstitial Fibrosis by Inhibiting the Core Fucosylation of Multiple Proteins. [Mol Ther. Oct 19 \[Epub ahead of print\]](#).

Storage

Store at -20°C

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10096 available at:
10096: <https://www.bio-rad-antibodies.com/uploads/MSDS/10096.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)

[FITC](#)

Sheep Anti Rabbit IgG (STAR35...)

[RPE](#)

Goat Anti Rabbit IgG (Fc) (STAR121...)

[Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [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
'M389875:210811'

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