

Datasheet: PHP250

Description:	RECOMBINANT HUMAN CD54
Name:	CD54
Other names:	ICAM-1
Format:	Rec. Protein
Product Type:	Recombinant Protein
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
ELISA	▪			0.2 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			

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 recombinant protein - lyophilised
Reconstitution	Reconstitute with 0.5ml distilled water 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.
Preparation	Purified recombinant CD54 expressed in CHO cells
Buffer Solution	10mM Sodium Phosphate
Preservative Stabilisers	None present
Endotoxin Level	<1EU/ug
Approx. Protein Concentrations	0.1mg/ml after reconstitution
External Database Links	UniProt: P05362 Related reagents

Entrez Gene:[3383](#) ICAM1 [Related reagents](#)

Product Information	CD54, otherwise known as ICAM-1, is a widely expressed type I integral membrane glycoprotein and member of the immunoglobulin superfamily, which acts as a ligand for the leukocyte integrin LFA-1 (CD11a/CD18) and Mac-1 integrins, and is the major receptor for human rhinovirus. CD54 is highly expressed on activated endothelial cells 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. Levels of soluble CD54 in serum, can be potentially used as an indication of infection, inflammation and certain tumours, and as a target for immunosuppression in transplantation.
Molecular Weight	49.5kD (453 amino acid residues)
Activity	CD54 supported the adhesion of more than 50% PMA-stimulated HSB2 cells to plates coated at a CD54 concentration of 25ng/ml.
Purity	>98% by SDS PAGE and HPLC analysis
ELISA	PHP250 may be used as a standard in ELISA applications involving AHP2183 or AHP2183B .
Western Blotting	PHP250 may be used as a positive control for western blotting applications involving AHP2183 or AHP2183B .
Storage	Prior to reconstitution store at +4°C. After reconstitution 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.
Shelf Life	3 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet Documentation #10345 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10345.pdf
Regulatory	For research purposes only

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Printed on 07 Jun 2017