

Datasheet: PHP249

Description:	RECOMBINANT HUMAN CD31
Name:	CD31
Other names:	PECAM-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
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 500ul 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 CD31 expressed in HEK293 cells
Buffer Solution	10 mM Sodium Phosphate
Preservative Stabilisers	None present
Endotoxin Level	<1EU/ug
Approx. Protein Concentrations	0.1mg/ml after reconstitution

External Database Links

UniProt:

[P16284](#) [Related reagents](#)

Entrez Gene:

[5175](#) PECAM1 [Related reagents](#)

Product Information	Recombinant Human CD31 antigen expressed in HEK293 cells comprises the extracellular domain of CD31, otherwise known as PECAM-1, a member of the Ig-related superfamily of adhesion molecules, expressed by endothelial cells, platelets, granulocytes and some lymphocytes, and plays a key role as a mediator of leucocyte-endothelial cell adhesion and leucocyte transendothelial migration, during inflammatory responses. CD31 has been linked with various inflammatory disorders including atherosclerosis, rheumatoid arthritis (RA) and multiple sclerosis (MS).
Molecular Weight	Recombinant human CD31 comprises the extracellular domain of CD31, consisting of 572 amino acid residues. Monomeric glycosylated CD31 migrates at approximately 80-95kDa by SDS-PAGE, under reducing conditions.
Activity	Determined by its ability to support the adhesion of activated Jurkat cells. The expected ED50 for this effect is 1.0 -1.5 µg/ml.
Purity	>97% by SDS PAGE and HPLC analysis
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 #10527 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10527.pdf
Regulatory	For research purposes only

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