

## Datasheet: PHP249

<b>Description:</b>	RECOMBINANT HUMAN CD31
<b>Name:</b>	CD31
<b>Other names:</b>	PECAM-1
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified recombinant protein - lyophilized
<b>Reconstitution</b>	Reconstitute with 500 ul 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.
<b>Preparation</b>	Purified recombinant CD31 expressed in HEK293 cells
<b>Source</b>	HEK-293
<b>Buffer Solution</b>	10 mM Sodium Phosphate
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Endotoxin Level</b>	< 1.0 EU/ug

<b>Approx. Protein Concentrations</b>	0.1 mg/ml after reconstitution
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P16284</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">5175</a> PECAM1 <a href="#">Related reagents</a>
<b>Product Information</b>	<b>Recombinant Human CD31 antigen</b> 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).
<b>Protein Molecular Weight</b>	Recombinant protein comprising the extracellular domain of CD31 (572 amino acid residues). Monomeric glycosylated CD31 migrates at approximately 80-95 kDa by SDS PAGE, under reducing conditions.
<b>Activity</b>	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.
<b>Purity</b>	>97% by SDS PAGE and HPLC analysis
<b>Storage</b>	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.
<b>Guarantee</b>	3 months from date of reconstitution
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10527 available at: <a href="https://www.bio-rad-antibodies.com/SDS/PHP24910527">https://www.bio-rad-antibodies.com/SDS/PHP24910527</a>
<b>Regulatory</b>	For research purposes only

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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)  
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