CD31 / PECAM-1 Recombinant Monoclonal Mouse Antibody (rC31.3)



Product Description

CD31 (PECAM-1) is a transmembrane glycoprotein member of the immunoglobulin supergene family of adhesion molecules. CD31 is expressed by stem cells of the hematopoietic system and is primarily used to identify and concentrate these cells for experimental studies as well as for bone marrow transplantation. Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. CD31 MAb reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining. The level of CD31 expression can help to determine the degree of tumor angiogenesis, and a high level of CD31 expression may imply a rapidly growing tumor and potentially a predictor of tumor recurrence. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. **Stock status**: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order.

Antibody number #3462 Antibody reactivity (target) Antibody type Primary Host species Mouse Clonality Recombinant Monoclonal Clone rC31.3 Isotype IgG1, kappa Molecular weight Clatelets Synonyms EndocAM; PECA1; Platelet Endothelial Cell Adhesion Molecule 1; GPIIA* Human gene symbol PECAM1 Entrez gene ID 5175 SwissProt P16284 Unigene 376675 & 514412 Immunogen Recombinant full-length human CD31 protein Verified antibody WB (verified) Plasma membrane Human Positive control TH-J Jurkat cells. Tonsil or Angiosarcoma. Shipping condition Room temperature Storage Conditions Note: store BSA-free antibodies at -10 to -35°C, Store at 2 to 8 °C, Protect fluorescent conjugates from light formulation PSA, 0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, 0.05% azide, Purified. 9SA-free: 1 mg/mL in PBS without azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Cell/tissue expression Endothelial cells	Product attributes				
(target) Antibody type Primary Host species Mouse Clonality Recombinant Monoclonal Clone rC31.3 Isotype IgG1, kappa Molecular weight ~100 kDa (endothelium) and ~130 kDa (platelets) Molecular weight ~100 kDa (endothelium) and ~130 kDa (platelets) Synonyms EndoCAM; PECA1; Platelet Endothelial Cell Adhesion Molecule 1; GPIIA' Human gene symbol PECAM1 Entrez gene ID 5175 SwissProt P16284 Unigene 376675 & 514412 Immunogen Recombinant full-length human CD31 protein Verified antibody WB (verified) Plasma membrane lucalization Plasma membrane Iuman Human Positive control THP-1, Jurkat cells. Tonsil or Angiosarcoma. Shipping condition Room temperature Storage Conditions Note: store BSA-free antibodies at -10 to -35°C, Store at 2 to 8 °C, Protect fluorescent conjugates from light Regulatory status For research use only (RUO) Antibody/conjugate formulation Conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05	Antibody number	#3462			
Antibody type Primary Host species Mouse Clonality Recombinant Monoclonal rC31.3 Isotype IgG1, kappa Molecular weight -100 kDa (endothelium) and ~130 kDa (platelets) Synonyms EndoCAM; PECA1; Platelet Endothelial Cell Adhesion Molecule 1; GPIIA' Human gene symbol PECAM1 Entrez gene ID 5175 SwissProt P16284 Unigene 376675 & 514412 Immunogen Recombinant full-length human CD31 protein Verified antibody WB (verified) Plasma membrane Iocalization Species reactivity Plasma membrane Human Positive control THP-1, Jurkat cells. Tonsil or Angiosarcoma. Shipping condition Room temperature Storage Conditions Note: store BSA-free antibodies at -10 to -35°C, Store at 2 to 8 °C, Protect fluorescent conjugates from light Regulatory status For research use only (RUO) Antibody/conjugate formulation PBS/0.05% aszide, Purified; 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, P		CD31, PECAM-1			
Clonality Recombinant Monoclonal Clone rC31.3 Isotype IgG1, kappa Molecular weight 7-100 kDa (endothelium) and ~130 kDa (platelets) Synonyms EndoCAM; PECA1; Platelet Endothelial Cell Adhesion Molecule 1; GPIIA' Human gene symbol PECAM1 Entrez gene ID 5175 SwissProt P16284 Unigene 376675 & 514412 Immunogen Recombinant full-length human CD31 protein Verified antibody WB (verified) Plasma membrane Human Positive control Plasma membrane Human Storage Conditions Note: store BSA-free antibodies at -10 to -35°C, Store at 2 to 8 °C, Protect fluorescent conjugates from light Regulatory status For research use only (RUO) Antibody(conjugate formulation PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified: 9.2 mg/mL in PBS/0.05% BSA/	(target) Antibody type	Primary			
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Isotype IgG1, kappa	Clonality	Recombinant Monoclonal			
Molecular weight ~100 kDa (endothelium) and ~130 kDa (platelets) Synonyms EndoCAM; PECA1; Platelet Endothelial Cell Adhesion Molecule 1; GPIIA' Human gene symbol PECAM1 Entrez gene ID 5175 SwissProt P16284 Unigene 376675 & 514412 Immunogen Recombinant full-length human CD31 protein Verified antibody WB (verified) Antibody target cellular localization Plasma membrane Species reactivity Plasma membrane Human THP-1, Jurkat cells. Tonsil or Angiosarcoma. Shipping condition Room temperature Storage Conditions Note: store BSA-free antibodies at -10 to -35° C, Store at 2 to 8°C, Protect fluorescent conjugates from light Regulatory status For research use only (RUO) Antibody/conjugate formulation Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HPT conjugates: 0.1 mg/mL in PBS/0.05% azide, HPT conju	Clone	rC31.3			
Synonyms	Isotype	IgG1, kappa			
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Species reactivity	localization	Plasma membrane			
Angiosarcoma. Shipping condition Room temperature Note: store BSA-free antibodies at -10 to -35°C, Store at 2 to 8 °C, Protect fluorescent conjugates from light Regulatory status For research use only (RUO) Antibody/conjugate formulation Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% aside, Purffled: 0.2 mg/mL in PBS/0.05% BSA, Purffled: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purffled: SBA-free: 1 mg/mL in PBS Without azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended		Human			
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Antibody/conjugate formulation Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA/0.05% BSA/0.05% BSA/0.05% BSA/0.05% azide, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended	Storage Conditions	-35°C, Store at 2 to 8 °C, Protect			
formulation BSÂ/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended	Regulatory status	For research use only (RUO)			
date of receipt when stored as recommended		BSÁ/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS			
Cell/tissue expression Endothelial cells	Shelf life	date of receipt when stored as			
	Cell/tissue expression	Endothelial cells			

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Antibody # prefix BNC04	Conjugation CF®405S	Ex/Em (nm) 404/431	Laser line 405	Detection channel DAPI (microscopy), AF405	Dye Features CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified,	N/A	N/A	N/A	

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