

Datasheet for ABIN2749192  
**anti-Cadherin 5 antibody**



[Go to Product page](#)

**1** Image **2** Publications

## Overview

Quantity:	0.1 mg
Target:	Cadherin 5 (CDH5)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cadherin 5 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	Human endothelial cells
Clone:	55-7H1
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 55-7H1 recognizes a calcium-independent extracellular epitope on CD144 (VE-cadherin, cadherin 5), an adhesion molecule expressed on endothelial cells.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

## Target Details

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Target:	Cadherin 5 (CDH5)
Alternative Name:	CD144 ( <a href="#">CDH5 Products</a> )
Background:	Cadherin 5,CD144 / VE-cadherin (cadherin 5) is the major cadherin that is present at endothelial junctions. It is also strictly endothelial specific. Under vascular permeability increasing conditions (and also in capillaries and veins) CD144 is being phosphorylated, which promotes its rapid and reversible internalization. On the contrary, binding of p120 catenin (delta1 catenin) maintains CD144 localization at the plasma membrane, which stabilizes the junction and reduces vascular permeability.,Cadherin 5, CDH5, 7B4, VE-cadherin
Gene ID:	1003
UniProt:	<a href="#">P33151</a>
Pathways:	<a href="#">Cell-Cell Junction Organization, Signaling Events mediated by VEGFR1 and VEGFR2</a>

## Application Details

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Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

## Handling

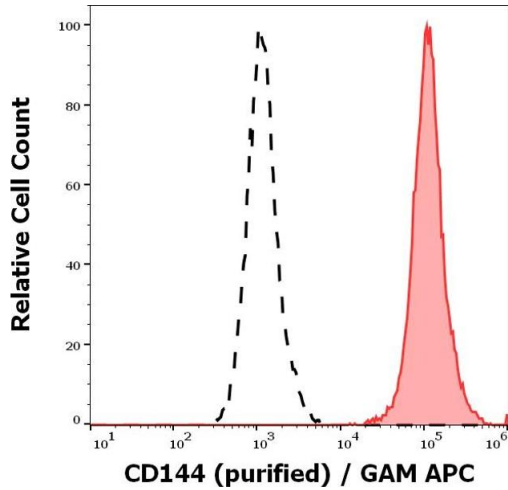
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Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

## Publications

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Product cited in:	Hamilton, Foss, Leach: "Establishment of a human in vitro model of the outer blood-retinal barrier." in: <b>Journal of anatomy</b> , Vol. 211, Issue 6, pp. 707-16, (2007) ( <a href="#">PubMed</a> ).
	Limaye, Li, Hahn, Xia, Berndt, Vadas, Gamble: "Sphingosine kinase-1 enhances endothelial cell survival through a PECAM-1-dependent activation of PI-3K/Akt and regulation of Bcl-2 family



### Flow Cytometry

**Image 1.** Separation of HUVEC cells stained using anti-CD144 (55-7H1) purified antibody (concentration in sample 5 µg/mL, GAM APC, red-filled) from HUVEC cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).