

CD144 (VE-cadherin) Monoclonal Antibody (eBioBV14 (BV14)), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b
Class	Monoclonal
Type	Antibody
Clone	eBioBV14 (BV14)
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_891369

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	-
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunoprecipitation (IP)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	-

Product Specific Information

Description: The BV14 monoclonal antibody reacts with mouse VE-Cadherin (CD144). VE-Cadherin is a 120 kDa member of the type II Cadherin family, characterized by the presence of 5 extracellular cadherin domains (ECD), and anchored to the actin cytoskeleton through their cytoplasmic tail. VE-Cadherin mediates homophilic adhesion between neighbouring endothelial cells and is localized within specialized structures at cell-cell contacts, called adherens junctions. VE-Cadherin is expressed constitutively throughout the entire vasculature, and is required for numerous endothelial cell functions including migration, survival, contact-dependent growth inhibition and endothelial cell assembly into tubular structures. Furthermore, it is thought that VE-Cadherin+CD45- cells from the yolk sac or aorta-gonad-mesonephros (AGM)+ have the potential to give rise to hematopoietic cells. Cross-blocking experiments suggest that BV14 recognizes a different epitope than another mouse VE-Cadherin monoclonal antibody, BV13.

Applications Reported: This eBioBV14 (BV14) antibody has been reported for use in immunoprecipitation, immunoblotting (WB), and immunohistology staining of frozen tissue sections. Intravenous injection of BV14 has been shown to induce a concentration- and time-dependent increase in vascular permeability in the heart and lungs, however BV13 was shown to be more potent in this activity. (Please use Functional Grade purified eBioBV13 (BV13), cat. 16-1441, in functional assays.)

Applications Tested: This eBioBV14 (BV14) antibody has been tested by western blot analysis of bEnd.3 cell lysates, and can be used in western blotting at a starting concentration of 2 µg/mL.

