

## VE-Cadherin (Phospho-Tyr731) Antibody

Catalog No: #11950



Package Size: #11950-1 50ul #11950-2 100ul

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## Description

Product Name	VE-Cadherin (Phospho-Tyr731) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of VE-Cadherin only when phosphorylated at tyrosine 731.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Tyrosine731 (H-I-Y(p)-G-Y) derived from Human VE-Cadherin.
Target Name	VE-Cadherin
Modification	Phospho
Other Names	Vascular endothelial cadherin; VE-cadherin; 7B4 antigen; CDH5; CD144 antigen
Accession No.	Swiss-Prot#: P33151; NCBI Gene#: 1003; NCBI Protein#: NP_001786.2
Uniprot	P33151
GeneID	1003;
SDS-PAGE MW	130kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

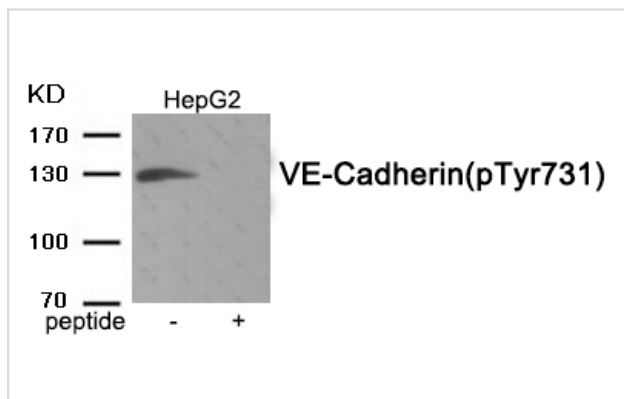
## Application Details

WB 1:500-2000

IHC 1:100-1:300

IF 1:50-200

## Images



Western blot analysis of extracts from HepG2 cells treated with Na<sub>3</sub>VO<sub>4</sub> using Phospho-VE-Cadherin (Tyr731) antibody #11950. The lane on the right is treated with the antigen-specific peptide.

## Background

Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. This cadherin may play an important role in endothelial cell biology through control of the cohesion and organization of the intercellular junctions. It associates with alpha-catenin forming a link to the cytoskeleton. Acts in concert with KRIT1 to establish and maintain correct endothelial cell polarity and vascular lumen.

Wessel F, et al. (2014) *Nat Immunol* 15, 223-30

Sawada J, et al. (2012) *Cancer Cell* 22, 235-49

Turowski P, et al. (2008) *J Cell Sci* 121, 29-37

Note: This product is for in vitro research use only