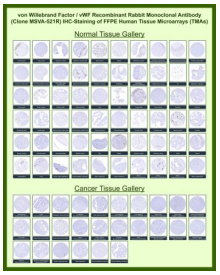
VWF Antibody for IHC / von Willebrand Factor Immunohistochemistry Antibody [clone MSVA-521R] (V6130)

Catalog No.	Formulation	Size
V6130-100UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V6130-20UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MSVA-521R
UniProt	P04275
Localization	Extracellular matrix, Extracellular space, Secreted
Applications	Immunohistochemistry (FFPE) : 1:50-1:100
Limitations	This VWF/von Willebrand factor antibody is available for research use only.



VWF Antibody for IHC Tissue Microarray (TMA). Immunohistochemistry analysis of von Willebrand factor VWF in formalin-fixed paraffin-embedded human normal and cancer tissue microarrays using recombinant rabbit monoclonal VWF antibody clone MSVA-521R. Tissue microarray (TMA) staining with HRP-DAB brown chromogen demonstrates strong cytoplasmic and membranous localization in endothelial cells lining vascular structures, including capillaries, small vessels, and larger vascular channels across diverse tissue types. Normal tissues display consistent vessel-associated staining patterns, while tumor tissue microarrays show variable vascular density and organization reflecting tumor-associated angiogenesis. Evaluation across large TMA panels enables direct comparison of vascular distribution and endothelial cell identification under standardized conditions. The observed staining patterns align with reported VWF expression profiles in publicly available datasets including the Human Protein Atlas.

Description

Von Willebrand factor (VWF) is a secreted glycoprotein encoded by the VWF gene and synthesized primarily by vascular endothelial cells and megakaryocytes. VWF Antibody for IHC / von Willebrand Factor Immunohistochemistry Antibody

(clone MSVA-521R) recognizes a protein that is strongly enriched in endothelial cells, making it highly effective for visualizing vascular structures in formalin-fixed, paraffin-embedded tissue. VWF antibody, also referred to as von Willebrand factor antibody or factor VIII-related antigen antibody, is widely used in immunohistochemistry to identify blood vessel linings and define vascular compartments within complex tissue environments.

In immunohistochemistry applications, clear delineation of endothelial cells is essential for accurate interpretation of tissue architecture. VWF produces a distinct staining pattern along vascular linings, outlining capillaries, small vessels, and larger vascular channels with strong contrast against surrounding stromal, epithelial, and inflammatory cells. This allows researchers and pathologists to easily identify vessel-associated structures and assess their distribution within the tissue. The ability to generate well-defined vascular staining makes VWF Antibody for IHC particularly valuable in routine tissue analysis and histological evaluation.

Clone MSVA-521R provides consistent staining of endothelial cells with clear visualization of vessel boundaries in FFPE samples. As a recombinant rabbit monoclonal antibody, it supports reproducible detection of VWF across tissue types, enabling reliable identification of vascular structures in both normal and disease-associated specimens. The staining pattern is characterized by strong cytoplasmic and luminal-associated signal within endothelial cells, producing continuous vessel outlines that facilitate interpretation of vascular organization.

This antibody has been evaluated using tissue microarray (TMA) IHC testing across a broad range of normal and cancer tissues, demonstrating consistent endothelial staining patterns that align with expected vascular distribution. TMA-based validation supports its performance in large-scale tissue screening and comparative studies, where reproducibility and staining clarity are critical. The ability to generate consistent results across diverse tissue types reinforces its suitability for immunohistochemistry-focused workflows.

In disease contexts, vascular structures often vary in density, morphology, and organization. Immunohistochemical detection of VWF enables visualization of these differences, supporting analysis of tissue architecture and vascular distribution without relying on indirect markers. Because endothelial cells maintain VWF expression across a wide range of conditions, the antibody provides a dependable signal for identifying vascular compartments even in structurally altered or heterogeneous tissues.

VWF Antibody for IHC / von Willebrand Factor Immunohistochemistry Antibody (clone MSVA-521R) is especially suited for applications requiring clear endothelial staining in tissue sections. Its ability to produce strong, well-defined vascular labeling in FFPE samples, combined with TMA-based validation, supports accurate identification of blood vessels and facilitates interpretation of tissue organization in both research and pathology settings.

This antibody is also part of a broader collection of IHC antibodies validated by tissue microarray analysis, supporting consistent staining across normal and cancer tissues.

Application Notes

1. Optimal dilution of the VWF Antibody for IHC / von Willebrand Factor Immunohistochemistry Antibody should be determined by the researcher.

2. This VWF/von Willebrand factor antibody is recombinantly produced by expression in human HEK293 cells.

3. Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121oC in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37oC for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

Immunogen

A recombinant fragment of human vWF protein (around amino acids 1815-1939) (exact sequence is proprietary) was

used as the immunogen for the VWF Antibody for IHC / von Willebrand Factor Immunohistochemistry Antibody.

Storage

VWF/von Willebrand factor antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

Alternate Names

VWF IHC antibody, von Willebrand factor immunohistochemistry antibody, VWF tissue staining antibody, endothelial marker IHC antibody, VWF TMA validated antibody