

#65707 Store at -20C

VWF (D8L8G) XP® Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IHC-P	H	Endogenous	310, 460	Rabbit IgG	#P04275	7450

Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50
1:500

Storage

For a carrier free (BSA and azide free) version of this product see product #39413.

Specificity / Sensitivity

VWF (D8L8G) XP® Rabbit mAb recognizes endogenous levels of total VWF protein. This antibody recognizes both the VWF precursor and mature VWF.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant human VWF protein.

Background

VWF (Von Willebrand factor) is a multimeric plasma glycoprotein that promotes adhesion of platelets to sites of vascular injury (1). Mature circulating VWF is made up of disulfide-bonded multimers that are in a complex with factor VIII (2). VWF is stored in secretory Weibel-Palade bodies in endothelial cells (3,4). It is synthesized as a large precursor protein and undergoes extensive posttranslational modifications including dimerization in the endoplasmic reticulum followed by cleavage of the pro-peptide and multimerization in the Golgi apparatus (3,4). VWF is important in hemostasis, and genetic defects in the structure and modification of VWF can cause von Willebrand disease (VWD), the most common congenital bleeding disorder in humans (5). Alternatively, increased levels of VWF have been shown to be involved in acute coronary thrombosis and are a clinical risk marker for atherosclerosis (6). VWF has also been shown to have a role in inflammation, functioning as an adhesive site for a variety of leukocyte subsets (7). Through siRNA experiments and the use VWF-deficient mice, it has also been shown that VWF regulates angiogenesis (8).

Background References

1. Tschoopp, T.B. et al. (1974) *J Lab Clin Med* 83, 296-300.
2. Hoyer, L.W. and Shainoff, J.R. (1980) *Blood* 55, 1056-9.
3. Jaffe, E.A. et al. (1974) *Proc Natl Acad Sci U S A* 71, 1906-9.
4. Wagner, D.D. et al. (1986) *J Cell Biol* 102, 1320-4.
5. Sadler, J.E. (2005) *Annu Rev Med* 56, 173-91.
6. Lip, G.Y. and Blann, A. (1997) *Cardiovasc Res* 34, 255-65.
7. Pendu, R. et al. (2006) *Blood* 108, 3746-52.
8. Starke, R.D. et al. (2011) *Blood* 117, 1071-80.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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