**VWF (D8L8G) XP® Rabbit mAb**

**For Research Use Only. Not For Use In Diagnostic Procedures.**

### Applications
- W, IP, IHC-P
- Endogenous

### Species Cross-Reactivity
- H
- Endogenous

### Molecular Wt.
- 310, 460 kDa

### Isotype
- Rabbit IgG®

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**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 of VWF-deficient mice, it has also been shown that VWF regulates angiogenesis (8).

### Specificity/Sensitivity:
- VWF (D8L8G) XP® Rabbit mAb recognizes both the VWF precursor and mature VWF.
- This antibody 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.

### Storage:
- Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

- *Species cross-reactivity is determined by western blot.

- ** Anti-rabbit secondary antibodies must be used to detect this antibody.

### Recommended Antibody Dilutions:
- Western blotting 1:1000
- Immunoprecipitation 1:50
- Immunohistochemistry (Paraffin) 1:500†

### Unmasking buffer:
- SignalStain® Citrate Unmasking Solution (10X) #14746
- Antibody diluent: SignalStain® Antibody Diluent #8112
- Detection reagent: SignalStain® Boost (HRP, Rabbit) #8114†
- Optimal IHC dilution determined using SignalStain® Boost IHC Detection Reagent

### For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

### Background References:

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

**Support:** +1-978-867-2388 (U.S.)
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- support@cellsignal.com
- Entrez-Gene ID #7450
- UniProt ID #P04275

### Telopeptide:**

**#65707**  
**Store at -20°C**

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**Applications:** W—Western  IP—Immunoprecipitation  IHC—Immunohistochemistry  ChIP—Chromatin Immunoprecipitation  IFS—Immunofluorescence  IF—Immunofluorescence  F—Flow cytometry  E—ELISA-Peptide  Species Cross-Reactivity: H—human  M—mouse  R—rat  cd—canine  d—dog  Mm—mink  Chc—chicken  Xm—Xenopus  B—bovine  Dq—dog  Pg—pig  Sc—S. cerevisiae  Ce—C. elegans  Hv—H. vulgaris  All—all species expected  Species enclosed in parentheses are predicted to react based on 100% homology.

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**Immunohistochemical analysis of paraffin-embedded human breast carcinoma using VWF (D8L8G) XP® Rabbit mAb.**

**Immunohistochemical analysis of paraffin-embedded human colon carcinoma using VWF (D8L8G) XP® Rabbit mAb.**

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Immunoprecipitation of VWF from HUVEC cell extracts. Lane 1 is 10% input, lane 2 is Rabbit (DA1E) mAb IgG XP® Isotype Control #3900, and lane 3 is VWF (D8L8G) XP® Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded human prostate carcinoma using VWF (D8L8G) XP® Rabbit mAb.