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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-von Willebrand factor [82D6A3] Standard Size Ab03983-1.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted mouse IgG1 Fc Silent™ antibody, based on the original mouse IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG1, Fc Silent™, Kappa

Clone Number: 82D6A3

Alternative Name(s) of Target: human vWF A3 domain; VWF-A3; vWF

UniProt Accession Number of Target Protein: P04275

Published Application(s): crystallization, in vivo, inhibition

Published Species Reactivity: Baboon, Human

Immunogen: The original antibody was purified from murine ascites by Protein A chromatography.

Specificity: This antibody is specific for human vWF, A3 domain.

Application Notes: This antibody was used as an inhibitor to study platelet adhesion to collagen VI and ECM. It was found to inhibit the binding of von Willebrand factor (VWF) to collagen I and III (Hoylaerts et al., 1997; PMID: 9164855). This antibody was found to have a comparable affinity for baboon vWF as for human vWF and inhibited the binding of baboon vWF to collagen with an inhibitory concentration of 50% (IC₅₀) of 3.5 µg/ml. Furthermore, it prevented the binding of VWF to collagen and removed bound VWF from a collagen surface, albeit with a lower efficacy. Moreover, the antithrombotic efficacy of the antibody was evaluated in a modified Folts model in baboons; this antibody was used to inhibit the interaction between collagen and vWF to prevent arterial thrombosis in baboons (Wu et al., 2002; PMID: 11986216). The crystal structure of the antibody's Fab fragment, in complex with the vWF A3 domain, was determined (Staelens et al., 2006; PMID: 16314412).

Antibody First Published in: Hoylaerts et al. von Willebrand factor binds to native collagen VI primarily via its A1 domain *Biochem J.* 1997 May 15;324 (Pt 1)(Pt 1):185-91. doi: 10.1042/bj3240185 PMID:9164855

Note on publication: The original publication investigates the interaction mechanism between collagen VI and von Willebrand factor (vWF).

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.