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Product datasheet for TA420143

VWF Mouse Monoclonal Antibody [Clone ID: RFF-VIII R/1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	RFF-VIII R/1
Applications:	ELISA, IHC, R
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human Factor VIII complex partially purified from Factor VIII concentrate.
Specificity:	VON WILLEBRAND FACTOR
Formulation:	Phosphate buffered saline containing 0.09% Sodium Azide (NaN3) **Label**: Alk. Phos.,Purified **State**: Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant Purified IgG - liquid
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	+4°C, -20°C if preferred
Stability:	Shelf life: one year from despatch.
Gene Name:	von Willebrand factor
Database Link:	P04275

Background:

Mouse anti Human von Willebrand factor antibody, clone RFF-VIII R/1 recognizes human von Willebrand factor (vWF), also known as Factor VIII related antigen, a blood glycoprotein involved in blood coagulation. It stabilises circulating Factor VIII by binding to it and protecting it from cleavage and delivers it to sites of vascular injury. vWF also promotes the adhesion of platelets to sites of vascular damage by forming a molecular bridge between collagen on exposed endothelial cells and the GPIb binding sites of platelets circulating in the blood. vWF circulates in the blood as large multimers, with each monomer (250kDa) containing a number of specific domains. Hereditary or acquired defects in vWF lead to von Willebrand disease (vWD), characterised by varying degrees of susceptibility to bleeding. Symptoms might include nosebleeds, bleeding gums, easy bruising, menorrrhagia or gastrointestinal bleeding. Various forms of vWD exist with differing severities, determined by the type of defect. Mouse anti Human von Willebrand factor, clone RFF-VIII R/1 has a high affinity for an epitope within the platelet GPIb-binding site that is responsible for biological activity. As such the antibody is a potent inhibitor of vWF activity. It can completely neutralise ristocetin-induced platelet aggregation and ristocetin-induced binding of vWF to platelets. It also inhibits platelet adhesion to glass beads. The epitope recognized is present only on the intact multimeric form of vWF and is abolished by mild denaturation with SDS. Mouse anti Human von Willebrand factor, clone RFF-VIII R/1 does not recognize human Factor VIII. Mouse anti Human von Willebrand factor antibody, clone RFF-VIII R/1 may be used as a capture antibody in immunoassays for vWF in combination with clone RFF-VIII R/2 as a detection reagent.

Synonyms:

FACTOR VIII RELATED ANTIGEN