

**Mouse Anti-CD42a [A9]: MC0161, MC0161RTU7**

**Intended Use:** For Research Use Only

**Description:** The CD42a antibody recognizes a 17 to 22-kilodalton (kDa) single-chain, platelet membrane glycoprotein, also known as gpIX that forms a noncovalent complex with gpIb and gpV. Glycoprotein Ib consists of an  $\alpha$ -chain disulfide-linked to a  $\beta$  chain. Glycoproteins Ib $\alpha$  (140 to 145 kDa), Ib $\beta$  (24 to 25 kDa), and V (82 to 86 kDa) have been designated as CD42b, CD42c and CD42d respectively. CD42a has been reported to react with both gpIX and the gpIb-IX-V complex.

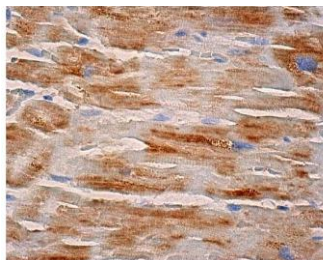
**Specifications:**

Clone: A9  
Source: Mouse  
Isotype: IgG1k  
Reactivity: Human  
Localization: Cytoplasm  
Formulation: Antibody in PBS pH7.4, containing BSA, and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC, ELISA, ICC/IF, IP, WB  
Package:

Description	Catalog No.	Size
CD42a [A9] Concentrated	MC0161	1 ml
CD42a [A9] Prediluted	MC0161RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Heart muscle  
Concentrated Dilution: 50-200  
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT



FFPE human heart muscle stained with anti-CD42a using DAB

**References:**

1. Detection and identification of platelet antibodies using a sensitive multiplex assay system-platelet antibody bead array. Metzner K et al. Transfusion. 2017.
2. Desialylation is a mechanism of Fc-independent platelet clearance and a therapeutic target in immune thrombocytopenia. Li J et al. Nat Commun. 2015.
3. High-resolution CryoFESEM of individual cell adhesion molecules (CAMs) in the glycocalyx of human platelets: detection of P-selectin (CD62P), GPI-IX complex (CD42A/CD42B alpha,B beta), and integrin GPIIbIIIa (CD41/CD61) by immunogold labeling and stereo imaging. Erlandsen SL et al. J Histochem Cytochem. 2001.

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