

## # M110-1

### Product Information

Catalog Number: M110-1  
Clone / Isotype: Nyn.H3 / Rat (Wistar) IgG2a  
Contents: FITC-labeled immunoglobulin in 20 mM Tris buffer with 137 mM NaCl, 0.5% BSA and 0.09% (w/v) sodium azide  
Size: 1.5 ml / 300 tests

**For research use only, not for diagnostic or therapeutic use. This product is no medical device.**

**Specificity:** The Nyn.H3 antibody reacts with murine CD9 (p24), a 24-kDa single chain surface glycoprotein that is a member of the tetraspanin family<sup>1,2</sup>. CD9 is expressed on platelets and many leukocytes and has a broad tissue distribution. CD9 is involved in cell adhesion, cell migration, and integrin signaling.

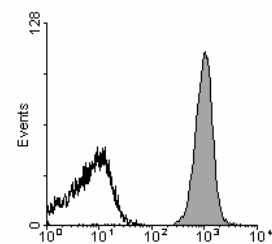
**Preparation and Storage:** The antibody was purified from hybridoma cell culture supernatant by Protein G-Sepharose chromatography. The antibody was conjugated with FITC under optimum conditions. The solution is free of unbound FITC. Store product undiluted at 4°C and avoid prolonged exposure to light. Stable for one year from date of shipment. Do not freeze.

**Usage:** The antibody preparation is optimized for flow cytometric applications: Use 5 µl to stain ~10<sup>6</sup> platelets or ~0.5x10<sup>6</sup> cells in a recommended volume of 25 µl. Incubate for 15 minutes at room temperature, stop reaction by addition of 400 µl PBS and analyze samples within 30 minutes. For immunofluorescent staining of acetone-fixed frozen sections, the appropriate dilution must be determined individually.

**Caution:** Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer.

#### Detection of CD9 on mouse platelets

Mouse blood was diluted 1:20 and 25 µl of this dilution were stained with 5 µl control IgG-FITC (emfret Analytics, P190-1, *black line*) or Nyn.H3-FITC (*shaded area*) for 15 min at RT and analyzed directly. Platelets were gated by FSC/SSC characteristics.



Log fluorescence intensity. FL1  
Mouse platelets

- References:**
- Jennings LK, Crossno JT Jr, Fox CF, et al. (1994) Platelet p24/CD9, a member of the tetraspanin family of proteins. *Ann N Y Acad Sci.* 18;714:175-84.
  - Maecker HT, Todd SC, Levy S. (1997) The tetraspanin superfamily: molecular facilitators. *FASEB J.* 11(6):428-42.