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## CERTIFICATE OF ANALYSIS

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.

**Catalog #:** N42165F **Lot #:** 9H23716

**Description:** MAb to CD63  
Monoclonal Antibody to CD63 gp 53  
Fluorescein Conjugated

**Specificity:** The molecular weight of the recognized platelet form of CD63 is 40 to 55 kDa. CLBGran/12 reacts with most peripheral blood cells including activated platelets, lymphoid, myeloid and endothelial cells, except for red blood cells and resting T cells. The CD63 antigen is present in many tissues and cell line PHA blasts, K562, U937, KG1a, RAJI. Both surface and cytoplasmic reactions are reported. CLB Gran/12 has been assigned to the CD63 cluster of differentiation at the IVth International Workshop on Human Leucocyte Differentiation Antigens.

**Clone:** CLBGran/12

**Host Animal:** Mouse. Hybridization of Sp2/0 Ag 1.4 myeloma cells with spleen cells from BALB/c x AJ mice. **Isotype:** IgG<sub>1</sub>

**Source:** Ascites

**Immunogen:** Human cytochrome B enriched cells.

**Format:** FITC, Liquid

**Concentration:** Not Applicable

**Buffer:** 0.01 M Sodium Phosphate, 0.145 M Sodium Chloride, pH 7.2 containing 2 mg/mL BSA.

**Preservative:** 0.1% Sodium Azide

**Applications:** Detection of activated platelets, neutrophils and basophils.  
Fluorescence microscopy or Flow Cytometry: 20 µL/10<sup>6</sup> platelets/test or 20 µL/5 x 10<sup>5</sup> cells/test.  
Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

**Storage:** Store (in the dark) at 2–8°C. **DO NOT FREEZE.**

**Warning:**

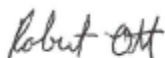
This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1 – 1.0 %. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

**References:**

The references listed below are for research purposes only:

CLB-gran12 has been assigned to the CD63 cluster of differentiation at the 4<sup>th</sup> International Workshop on Human Leukocyte Differentiation Antigens in Vienna (1989).

1. Azorsa, D.O., et al., (1995), "CD63 cluster report workshop", In Leucocyte Typing V, Schlossman, S.F. et al, Eds. Oxford University Press, pp 1352-1353.
2. Modderman, P.W., (1989), "Cluster report CD63", In Leucocyte Typing IV, Knapp, W. et al. Eds, Oxford University Press, p 1042.
3. Nieuwenhuis, H.K., et al., (1987), "Studies with a monoclonal antibody against activated platelets: evidence that a secreted 53,000-molecular weight lysosome-like granule protein is exposed on the surface of activated platelets in the circulation", Blood, **70**, 838-845.
4. de Haas, M., et al., (1994), "Granulocyte colony-stimulating factor administration to healthy volunteers: analysis of the immediate activating effects on circulating neutrophils", Blood, **84**, 3885-3894.
5. Mul, F. P.J., et al., "An improved method for the purification of basophilic granulocytes from human blood", Journal of Immunological Methods, **149**, 207-214.
6. Knol, E.F., et al., (1995), "Analysis using the myeloid panel mAb of purified basophils obtained from human blood: changes in expression during degranulation", In Leucocyte Typing V., Schlossman, S.F. et al, Eds. Oxford University Press, pp 1049-1051.
7. Metzelaar, M.J., et al., (1989), "A new cluster of activation-dependent mAb recognizing a 53-kDa lysosome-like granule protein, expressed on the plasma membrane after activation", In Leucocyte Typing IV, Knapp, W. et al. Eds, Oxford University Press, pp 1042-1043.
8. von der Borne A.E.G.Kr, et al., (1989), "Platelet antigens", In Leucocyte Typing IV. Knapp, W. et al. Ed, Oxford University Press, pp 950-1046.



Signature

25 Aug 2016

Date

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**