

# Monoclonal Antibody CD62P

PN IM1315 – Purified – Freeze-dried – 0.2 mg – Clone CLB-Thromb/6

For Research Use Only. Not for use in diagnostic procedures.

## SPECIFICITY

CD62P also called GMP-140 or PADGEM protein is a 140 kDa glycoprotein which contains an amino terminal lectin like domain, followed by an EGF domain, nine short consensus repeats (SCR), a transmembrane domain and a short cytoplasmic domain. P-selectin shares considerable amino acid sequence homology with E- and L-selectin (1).

P-selectin is contained within the  $\alpha$ -granules of circulating resting platelets and endothelial cells and is translocated to the surface membrane upon *in vitro* and *in vivo* activation. It is also expressed by the megakaryocytes (2, 3).

CD62P plays a critical role in the interaction between platelets and both monocytes and neutrophils (4, 5)

The monoclonal antibody (mAb) CLB-Thromb/6 recognises the region located between the lectin and EGF-like domains (1, 4, 6).

The mAb CLB-Thromb/6 was assigned to CD62P during the 4<sup>th</sup> HLDA Workshop on Human Leucocyte Differentiation Antigens in Vienna, Austria, in 1989 (WS Code: 74, Section P) (7) and was studied at the fifth International Workshop on Human Leucocyte Differentiation Antigens in Boston (1993) (4)

## REAGENT

Monoclonal Antibody CD62P

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**Clone** CLB-Thromb/6

**Isotype** IgG1, mouse

**Immunogen** Human platelets

**Hybridoma** Myeloma SP2/0 Ag14 x mouse Balb/c x A/J

**Source** Ascites fluid

**Purification** Affinity chromatography on protein A

## REAGENT CONTENTS

1 mg/mL bovine serum albumin in phosphate-buffered saline.

## STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting

infection and disposed of with proper precautions.

2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Avoid microbial contamination of reagent or erroneous results may occur.
5. Use good laboratory practices when handling this reagent.

## STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date on the vial label when stored at 2 – 8°C. The reconstituted form may be stored at – 20°C until the expiration date. Aliquotting is suggested to avoid multiple freeze-thaw cycles. The addition of sodium azide at 0.1% (w/v) is recommended for storage of the reconstituted form for up to one month at 2 – 8°C. Minimize exposure to light and warmth.

## REAGENT PREPARATION

Reconstitute with 1 mL of distilled water. No preservative has been added.

## APPLICATIONS

Studies of platelets functions

For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

## SELECTED RESEARCH REFERENCES

1. Saunders, K.B., Kansas, G.S., Tedder, T.F., "Domain mapping of the selectin panel of mAb", 1993, Tissue Antigens, 4, 42, 294.
2. Metzelaar, M.J., Sixma, J.J., Nieuwenhuis, H.K., "Activation-dependent mAb recognizing a 140 kDa platelet  $\alpha$ -granule membrane protein, expressed after activation" in Leucocyte Typing IV, 1990, W. Knapp Editor, Oxford University Press.
3. McEver, R.P., "Properties of GMP-140, an inducible granule membrane protein

of platelets and endothelium", 1990, Blood Cells, 16, 73-83.

4. Diacovo, T., Springer, T.A., "CD62P (P-selectin) cluster report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 1500-1501.
5. de Bruijne-Admiral, L.G., Modderman, P.W., Von dem Borne, A.E.G.Kr., Sonnenberg, A., "P-Selectin mediates Ca<sup>++</sup>-dependent adhesion of activated platelets to many different types of leukocytes: detection by flow cytometry" 1992, Blood, 80, (1), 134-142.
6. Modderman, P.W., "New clusters of antibodies against platelet activation antigen: CD62 and CD63", 1984, Leucocyte Typing I, Bernard, A. et al. Eds., Springer Verlag, 1038-1042.
7. Modderman P.W., "CD62 cluster report", 1989, Leucocyte Typing IV, White Cell Differentiation Antigens. Schlossman, S.F., et al., Eds., Oxford University Press, 1038-1042.

## PRODUCT AVAILABILITY

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For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

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Manufactured by:  
Immunotech, a Beckman Coulter Company  
130, avenue de Lattre de Tassigny, B.P. 177  
13276 Marseille Cedex 9, France

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