

## CD62P

<b>CONTACT INFORMATION:</b>	Immunology Unit. Faculty of Medicine and Medical Sciences, University of Barcelona
<b>STATUS:</b>	Validated
<b>TYPE:</b>	mouse anti human
<b>CLONE NAME:</b>	P.SEL KO 2.3
<b>PROTEIN:</b>	-
<b>ANTIGEN USED:</b>	300.19 transfected with human CD62P
<b>FUSION PARTNER:</b>	Ns1
<b>ISOTYPE:</b>	IgG1
<b>SPECIES REACTIVITY:</b>	-
<b>PREPARATION AND STORAGE:</b>	-
<b>APP RECOMMENDED:</b>	IP, Flow cytometry
<b>APP NO TESTED:</b>	IHQ-paraffin, IHQ-frozen, IF, WB

### DESCRIPTION

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P-selectin (CD62P) is an adhesion molecule expressed on the activated endothelium and activated platelets that is involved in the initial attachment of leukocytes to inflamed vascular endothelium.

P-selectin is constitutively present in alpha-granules of platelets and Weibel-Palade bodies of endothelial cells, and is mobilized to the cell surface after activation by thrombogenic and inflammatory mediators.

### REFERENCES

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Massaguer A, Engel P, Pérez-del-Pulgar S, Bosch J, Pizcueta P. Production and characterization of monoclonal antibodies against conserved epitopes of P-selectin (CD62P). *Tissue Antigens*. 2000, 56:117-128

Massaguer A, Perez-Del-Pulgar S, Engel P, Serratosa J, Bosch J, Pizcueta P. Concanavalin-A-induced liver injury is severely impaired in mice deficient in P-selectin. *Leucocyte Typing VII*.(ed. Mason D et al.), Oxford University Press, Oxford 2002, 342-343

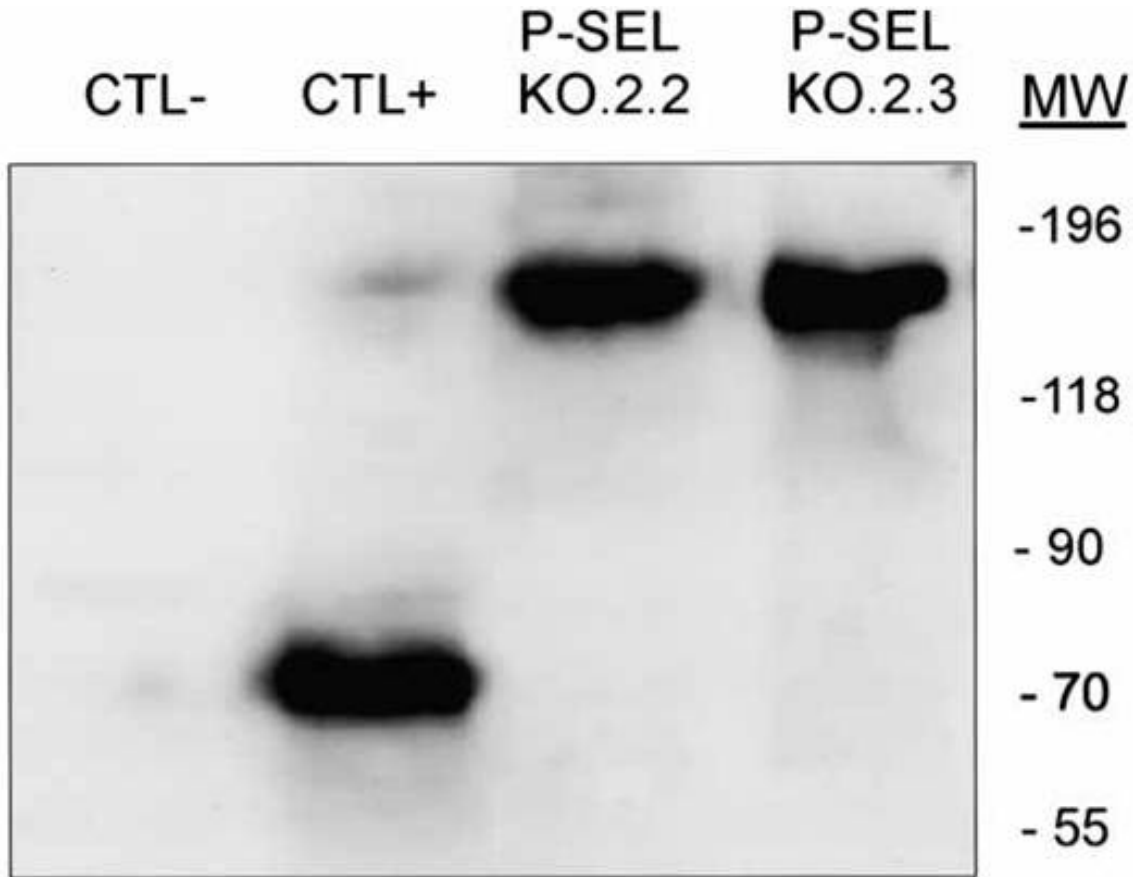
Barrabés JA, Mirabet M, Agulló L, Figueras J, Pizcueta P, Garcia-Dorado D. Platelet deposition in remote cardiac regions after coronary occlusion. Eur J Clin Invest. 2007, 37:939-46

Mirabet M, Garcia-Dorado D, Inserte J, Barrabés JA, Lidón RM, Soriano B, Azevedo M, Padilla F, Agulló L, Ruiz-Meana M, Massaguer A, Pizcueta P, Soler-Soler J. Platelets activated by transient coronary occlusion exacerbate ischemia-reperfusion injury in rat hearts. Am J Physiol Heart Circ Physiol. 2002; 283:H1134-41

Massaguer A, Engel P, Tovar V, March S, Rigol M, Solanes N, Bosch J, Pizcueta P. Characterization of platelet and soluble-porcine P-selectin (CD62P). Vet Immunol Immunopathol. 2003, 96:169-81.

## APPLICATIONS

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
Western Blotting								
Immunoprecipitation								
	P.SEL KO 2.3	1 ug						



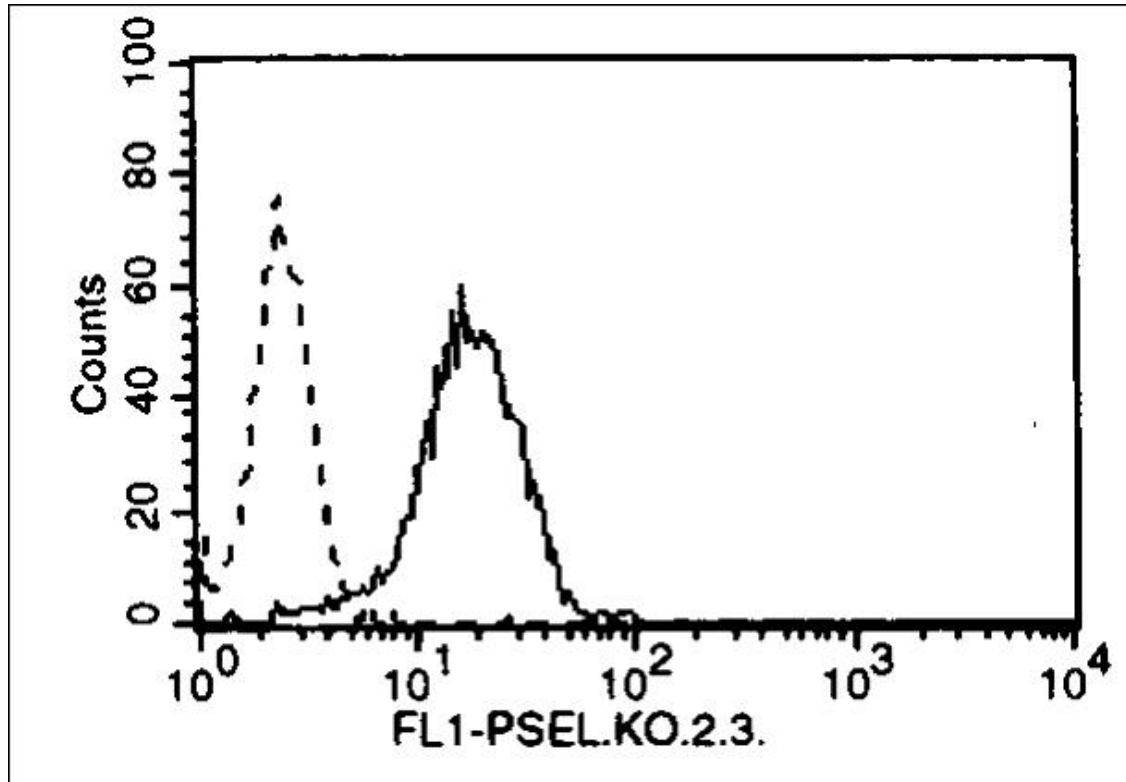
## HUMAN

### Immunoprecipitation of P-selectin from human platelets with P-sel.KO.2.2 and P-sel.KO.2.3 mAbs.

Human activated and surface biotinylated platelets were lysed and immunoprecipitated with P-sel.KO.2.2 and P-sel.KO.2.3 mAbs. A mAb against CD84 was used as positive control, and an irrelevant mAb as negative control. Samples were run on a SDS-PAGE gel under reducing conditions and blotted onto PVDF membrane.

Membrane was treated with HRP-avidin and the bands developed. Molecular weight markers (kDa) are indicated.

FLOW CYTOMETRY	Clone	Dilution	Positive control	Negative control	Type of fluorocrom
	P.SEL KO 2.3	1 ug		untransfected 300.19 cells	



**Specificity of the P-sel.KO.2.3 mAb for P.Selectin by flow cytometry**

Representative histogram obtained after indirect immunofluorescence staining of untransfected 300.19 cells (dashed lines) and 300.19 cells transfected

with human P-selectin c-DNA (solid lines) with P-sel.KO.2.3. Fluorescence intensity is shown on a 4-decade log scale.

## Monoclonal Antibodies Catalogue

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OTHERS	Title	Description
	ELISA	The P-Sel.KO.2.3 mAb, that reacts with human, mouse and rat Pselectin, was used as the capture antibody.