

## Anti-human PF4 (Monoclonal Antibody)

[a-PF4-h1]

### Properties\*

<b>Product #</b>	<b>[a-PF4-h1]</b>
Immunogen	Human Platelet Factor 4 (PF4, ChromaTec, Cat. # PF4-h)
Specificity	Native (tetrameric) human PF4 (CXCL4)
Ig Type	Monoclonal mouse IgG2b, $\kappa$ (clone: 4C4H3)
Source	Produced in mice immunized with human PF4 (ChromaTec; # PF4-h); PF4 specific IgG was purified by affinity chromatography from supernatants of mouse hybridoma cultures.
Purity	> 98% as determined by SDS-PAGE (silver staining)
Product sizes	20 $\mu$ g, 200 $\mu$ g (Different sizes are available on request)
Quality control	SDS-Page, PF4-ELISA, Dot Blot, MALDI-TOF-MS
Physical form	Lyophilized in PBS (0.22 $\mu$ m filtered), carrier free (Different buffers are available on request)
Reconstitution	Reconstitute carefully in <i>A. dest.</i> (1 $\mu$ l/ $\mu$ g IgG). Adjust the protein concentration with PBS. Do not vortex.
Applications	ELISA: This antibody can be used at 50 - 1000 ng/mL with the appropriate secondary reagents to detect native human PF4. The detection limit of 500 ng/ml a-PF4-h1 (1:2000 dilution) was 0.5 - 1 ng PF4 per well. Denatured PF4 (boiling, 2 % SDS) was only faintly detected. This antibody is not binding to denatured PF4 in Dot Blot or Western Blot analysis.
Shipping	Ambient temperature
Storage	Store dark in working aliquots at -20°C to -80°C. Avoid repeated freezing and thawing.
Stability	Lyophilisate is stable for at least 12 month at -20°C.

### Description

This monoclonal antibody was purified from supernatants of mouse hybridoma cultures. It specifically binds to native human Platelet Factor 4 (PF4; also known as CXCL4), as determined by dot blot analysis and ELISA. PF4, the antigen of this antibody, is synthesized in megakaryocytes and platelets and is biologically active in the tetrameric form.

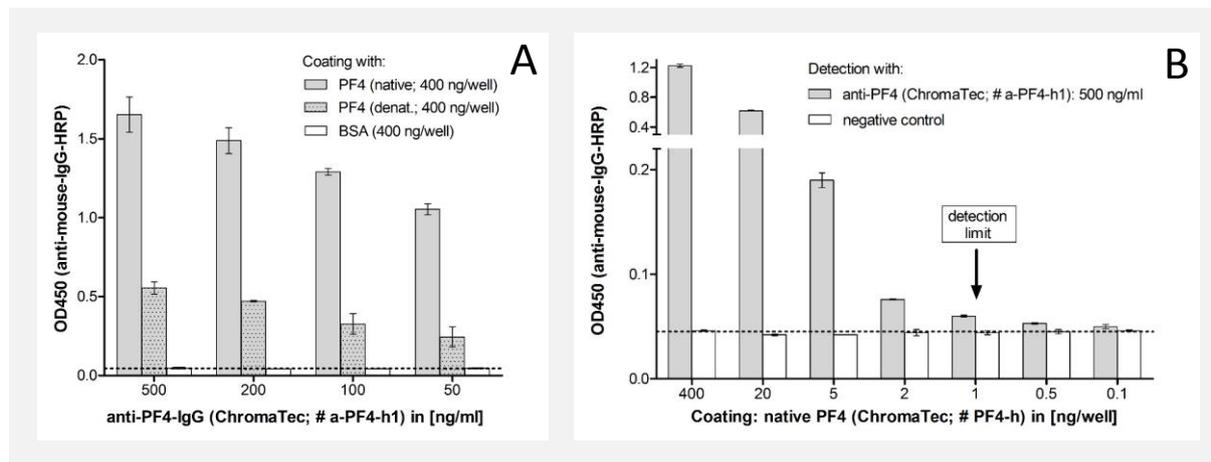
\*Please note that the properties of this product may alter under different experimental conditions. If changes (buffers, pH etc.) are made, the responsibility is transferred from the seller to the customer. The material is neither intended or tested for clinical tests nor certified for human use.



**Anti-human PF4 (Monoclonal Antibody)**

[a-PF4-h1]

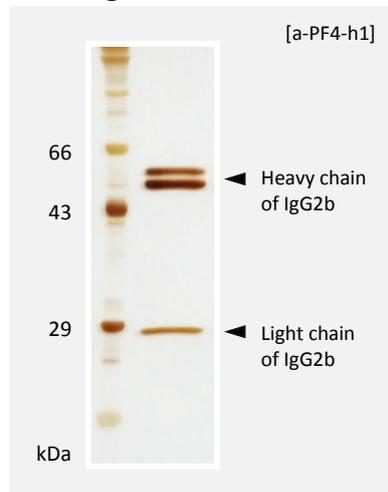
**PF4-ELISA**



**PF4-ELISA with anti-human PF4 IgG (ChromaTec; # a-PF4-h1):**

**A)** Binding of different PF4 antibody concentrations to either native PF4, denatured PF4 (2% SDS, boiling) and BSA was tested in an ELISA using HRP-conjugated secondary antibodies. The antibody shows much stronger binding to native PF4. **B)** Determination of the PF4-detection limit. 500 ng/ml (1:2000 dilution) anti-PF4 IgG (ChromaTec; # a-PF4-h1) detected less than 1 ng native PF4/well.

**SDS-Page**



**SDS-Page (12.5% PAA, silver staining):**  
Heavy chain (2 bands at ~ 50 kDa; different O-Glycosylation of mouse IgG2b) and light chain (band at ~ 28 kDa) of anti-PF4-IgG (# a-PF4-h1, mouse IgG2b, 2 µg).

