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Anti-HPA-1a [CAMTRAN007 (B2G1)] Bulk Size Ab04041-10.0-BT

Isotype and Format: Human IgG1, Lambda

Clone Number: CAMTRAN007 (B2G1)

Alternative Name(s) of Target: Leu33 CD61; Platelet membrane glycoprotein IIIa leucine-33; GPIIIa Leu 33

UniProt Accession Number of Target Protein:

Published Application(s): activation, Blocking, inhibition, MAIPA, PIFT, Sensitization, ELISA, IF

Published Species Reactivity: Human

Immunogen: The original antibody was generated by utilizing anti-self scFv phage display library techniques.

Specificity: This antibody is specific for the leucine 33 (not the proline 33) form of human GPIIIa.

Application Notes: The original format of this antibody (human scFv) was in ELISA screening to test its binding to antigen-coated plates, immunofluorescence (IF) analysis on genotyped platelets to assess binding, and inhibition assays to evaluate its ability to block the binding of human IgG GPIIIa leu 33-specific polyclonal alloantibodies. It showed specific binding to GPIIb/IIIa leu 33 homozygous platelets compared to GPIIb/IIIa pro 33 homozygous platelets, as demonstrated by IF staining and fluorescence-activated cell sorter (FACS) analysis. The purified scFv fragments were able to inhibit the binding of polyclonal GPIIIa leu 33-specific IgG alloantibodies from plasma, resulting in a significant reduction in binding in a Monoclonal Antibody-Specific Immobilization of Platelet Antigen (MAIPA) assay (Griffin & Ouwehand, 1995; PMID: 8541531). A human recombinant IgG1 (termed CAMTRAN007 (and later B2G1)) was created from the original scFv version of the antibody and used in platelet immunofluorescence test (PIFT) and to develop an ELISA assay for HPA-1a typing (Garner et al., 2000; PMID: 10691879). B2G1 was used to sensitize platelets and measure platelet binding IgG; the antibody was incubated with platelet-rich plasma (PRP) or washed platelets to sensitize them, and the sensitized platelets (P-IgG) were then used in functional assays and experiments to measure platelet activation and expression of P-selectin (Turner & Hadley, 2003; PMID: 12752104). Clone B2G1 was mutated (creating B2G1 Δ ab and B2G1 Δ ac antibodies), and all forms were used in various assays to study their effects on platelet activation, tyrosine phosphorylation, protein kinase C (PKC) activation, platelet aggregation, *in vitro* bleeding time (IVBT), platelet adhesion, and cell adhesion to fibrinogen. B2G1 achieved modest inhibition (20%) of binding to fibrinogen in a whole blood perfusion assay; ADP-induced aggregation was reduced by 50%; in HPA-1a1a platelets, both wildtype and mutated HPA-1a antibodies (including B2G1) caused 100% inhibition of whole blood perfusion over collagen, platelet aggregation to ADP, and IVBT responses to collagen/ADP and collagen/epinephrine; it inhibited ADP-induced

aggregation in HPA-1a1a platelets, with greater inhibition at higher concentrations; it significantly prolonged closure times (CTs) in whole blood IVBT assays with HPA-1a1a platelets, with greater inhibition at higher concentrations; it had minimal or no effect on CTs with HPA-1a1b and HPA-1b1b samples; it inhibited platelet adhesion to fibrinogen under low shear rate in HPA-1a1a platelets but showed minimal inhibition in HPA-1a1b and HPA-1b1b samples; and it completely abolished α V β 3-Leu33-mediated cell spreading and attachment (Joutsu-Korhonen et al., 2004; PMID: 15045136).

Antibody First Published in: Griffin & Ouwehand A human monoclonal antibody specific for the leucine-33 (P1^{A1}, HPA-1a) form of platelet glycoprotein IIIa from a V gene phage display library Blood. 1995 Dec 15;86(12):4430-6. [PMID:8541531](https://pubmed.ncbi.nlm.nih.gov/8541531/)

Note on publication: The original publication describes the generation of human monoclonal antibody fragments specific for the leucine 33 form of platelet glycoprotein IIIa, which can inhibit the binding of polyclonal human IgG alloantibodies to this form, offering potential diagnostic and therapeutic applications for severe fetal/neonatal alloimmune thrombocytopenia (FNAIT).

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.