Anti-HLA-A2/A28 [3PF12] Bulk Size Ab00947-10.6-BT

This is a Fab fragment with a his-tag.

This reformatted human antibody was made using the variable domain sequences of the original Human scFv format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human Fab fragment, His-Tagged, Kappa
Clone Number: 3PF12
Alternative Name(s) of Target: Human Leukocyte antigen; HLA-A2; HLA-A28; HLA A2; HLA A28
UniProt Accession Number of Target Protein:
Published Application(s): FC, IF
Published Species Reactivity: Human
Immunogen: A 57-year-old female presented with post-transfusion purpura 5 days following a blood transfusion. Serological studies with the sera of this patient identified the presence of anti-HLA-A2. A 50-ml EDTA anti-coagulated blood sample was obtained from the patient in the acute phase of her PTP, and mononuclear cells were isolated from the blood sample by layering onto a Ficoll gradient. An oligo dT primer was used to direct first strand cDNA synthesis and IgG encoded VH was amplified and an scFv library was constructed. Phage particles expressing anti-HLA A2/A28 scFvs were selected by panning.
Specificity: Amino acid residues 142-145 (TTKH) of the alpha2 domain of the heavy chain of the HLA class I molecules are most likely to be involved in the formation of the epitope recognised by the scfv.
Application Notes: ScFv 3PF12 has been used in immunofluorescence and flow cytometry experiments to test antibody binding to HLA-A2 positive lymphocytes and platelets (Watkins 2000). The scFv has been tested in in vitro assays and have been shown to inhibit target cell killing (Watkins 2003).
Antibody First Published in: Watkins et al. The isolation and characterisation of human monoclonal HLA-A2 antibodies from an immune V gene phage display library Tissue Antigens 2000: 55: 219–228 PMID:10777097
Note on publication: Describes the isolation of scFvs against HLA-A2/A28 by V gene phage display.

Product Form

Size: 500 µg Purified antibody in bulk size.
Purification: Purified by Immobilized Metal Affinity Chromatography
Supplied In:

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PBS only.

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

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.

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