



Product Data Sheet

Mouse Anti-Human CD42b (gplb)-PE/Cy5 conjugate

Catalog#	CD42bPC-25	Size	25 tests
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CD42b is a 145 kD glycoprotein known as gplba. It is composed in a heterodimer with a β chain (CD42c, gplb β) through a disulfide bond. CD42b is expressed on platelets and megakaryocytes. CD42b/c heterodimer forms a complex with CD42a and d and acts as the receptor for Von Willibrand factor and thrombin.

Other Names: Glycocalicin, gplba

Structure: Mucin, leucine-rich repeat family, 145 kD

Distribution: Platelets, megakaryocytes

Function: Complex with CD42a, c and d, platelet adhesion and activation

Ligand Receptor: Von Willebrand factor, thrombin

DESCRIPTION

Antibody reacts with a 170 kDa two chain membrane glycoprotein, GPIb, that forms a non-covalent complex with GPIX (CD42a) found on platelets and megakaryocytes. HIP1 inhibits the ristocetin-dependent binding of von Willebrand Factor (vWF) to platelets and partially inhibits collagen-induced aggregation. The GPIb/IX complex serves as the vWF surface receptor involved in the adhesion of platelets to the subendothelium of damaged vascular walls.

PREPARATION

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with, R-PE/Cy5 under optimum conditions. It is supplied in PBS, pH 7.5, 0.1% BSA, and 0.05% azide.

USAGE

Flow cytometry: The purified reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis. The conjugated reagent (R-PE/Cy5) is tested for flow cytometric analysis using 20 ul/10⁶ cells. It may be recommended to use more antibody (40 ul/10⁶ cells) for better sensitivity or in cells with low concn of antigen.

PE-Cy5 is optimized for use with a single argon ion laser emitting 488-nm light. Because of the broad absorption spectrum of the PE-Cy5 tandem fluorochrome, extra care must be taken when using dual-laser cytometers which may directly excite both PE and Cy5TM. CyTM is a trademark of Amersham Biosciences Limited.

Suggested matching isotype negative controls

#20102-101-PC5, Mouse IgG1-PE-Cy5 conjugate (isotype control), 50 Tests

STORAGE

For conjugated forms, storage at 4oC, should not be frozen and avoid prolonged exposure to light.

Refs: McEver R (1995) JBC 270, 11025; Varki A (1994) PNAS 91, 7390

This product is for in vitro research use only.

CD42bPC-25

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