

Product Data Sheet

LEAF™ Purified anti-human CD42b

Catalog # / Size: 303908 / 500 µg

Clone: HIP1

Isotype: Mouse IgG1, κ

Workshop Number: IV P70

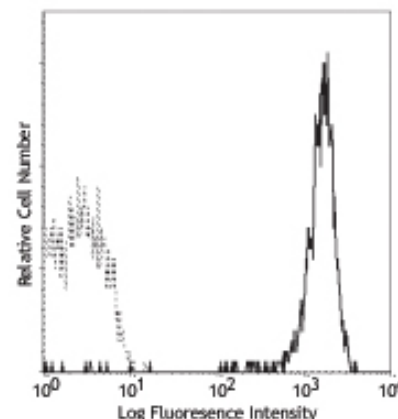
Reactivity: Human, **Cross-Reactivity:** Chimpanzee

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Human platelets stained with HIP1 PE

Applications:

Applications: FC - *Quality tested*
 Block, WB, IHC - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.5 µg per 10⁶ cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections, Western blotting, and inhibition of platelet aggregation². The LEAF™ Purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 303908).

Application References: 1. Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press. New York.
 2. Takahashi R, *et al.* 1999. *Blood* 93:1951.
 3. Meyer Dos Santos S, *et al.* 2011. *Blood*. 117:4999. PubMed.

Description: CD42b is a 145 kD glycoprotein known as gplbα. It is composed in a heterodimer with a β chain (CD42c, gplbβ) 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.

Antigen References: 1. Clemetson K, *et al.* 1982. *J. Clin. Invest.* 70:304.
 2. Fox J, *et al.* 1988. *J. Biol. Chem.* 263:4882.
 3. Kuijpers R, *et al.* 1992 *Blood* 79:283.

Related Products:

Product
 Purified anti-human CD41
 LEAF™ Purified Mouse IgG1, κ Isotype Ctrl
 Cell Staining Buffer
 RBC Lysis Buffer (10X)

Clone
 HIP8
 MOPC-21

Application
 FC, IHC, CyTOF®
 FC, ICFC, WB, IP, ICC, IF, FA
 FC, ICC, ICFC
 FC, ICFC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biollegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.