



11-418-C100

Monoclonal Antibody to CD41b Purified Antibody (0.1 mg)

Clone:	HIP2
Isotype:	Mouse IgG3
Specificity:	The antibody HIP2 reacts with beta (b) subunit of CD41 glycoprotein (light chain; 23 kDa). CD41 is mainly expressed on platelets and megakaryocytes. HLDA IV; WS Code P 39
Regulatory Status:	RUO
Species Reactivity:	Human, Non-Human Primates
Application:	Flow Cytometry This HIP2 antibody has been tested by flow cytometric analysis of human platelets. This can be used at less than or equal to 1 µg per 100 µl blood. Immunohistochemistry (frozen sections)
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD41 (platelet glycoprotein IIb) is composed of two subunits (120 kDa a, alpha and 23 kDa b, beta) that interact with CD61 in the presence of calcium to form a functional adhesive protein receptor. Upon blood vessel damage, this receptor binds to a variety of proteins including von Willebrand factor, fibrinogen, fibronectin and vitronectin. CD41 is mainly expressed on megakaryocyte-platelet lineage, but generally belongs to the antigens that are expressed during early stages of hematopoietic differentiation.

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

- *Debili N, Robin C, Schiavon V, Letestu R, Pflumio F, Mitjavila-Garcia MT, Coulombel L, Vainchenker W: Different expression of CD41 on human lymphoid and myeloid progenitors from adults and neonates. *Blood*. 2001 Apr 1;97(7):2023-30.
- *Mitjavila-Garcia MT, Cailleret M, Godin I, Nogueira MM, Cohen-Solal K, Schiavon V, Lecluse Y, Le Pesteur F, Lagrue AH, Vainchenker W: Expression of CD41 on hematopoietic progenitors derived from embryonic hematopoietic cells. *Development*. 2002 Apr;129(8):2003-13.
- *Ferkowicz MJ, Starr M, Xie X, Li W, Johnson SA, Shelley WC, Morrison PR, Yoder MC: CD41 expression defines the onset of primitive and definitive hematopoiesis in the murine embryo. *Development*. 2003 Sep;130(18):4393-403.
- *Zhang J, Varas F, Stadtfeld M, Heck S, Faust N, Graf T: CD41-YFP mice allow in vivo labeling of megakaryocytic cells and reveal a subset of platelets hyperreactive to thrombin stimulation. *Exp Hematol*. 2007 Mar;35(3):490-499.
- *Chen Z., Bao ZX., Yu AX. et al. (1987): A group monoclonal antibodies against human platelets with different functions. *Chinese Science Bulletin*. 24:1902
- *Bao CX., Chen Z., Jin XQ. et al. (1987): HIP2: A new monoclonal antibody with stimulation for human platelet. *Chinese J. of Hematology*. 8(2):65
- *Wu XW., Chen Z., Bao CX. et al. (1989): Production and application of anti-human platelet GPIIb/IIIa monoclonal antibodies. *National Medical J. of China*. 69(8):427
- *Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989).
- *Bao CX., Liu JW., Chen GZ. et al. (1992): Some biological characterization of monoclonal antibody HIP2 receptor on platelet membrane glycoprotein IIB. *Chinese J. of Hematology*. 13(2):66
- *Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995).
- *Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

Unless indicated otherwise, all products are For Research Use Only and not for diagnostic or therapeutic use. Not for resale or transfer either as a stand-alone product or as a component of another product without written consent of EXBIO. EXBIO will not be held responsible for patent infringement or other violations that may occur with the use of our products. All orders are accepted subject to EXBIO's term and conditions which are available at www.exbio.cz.

For laboratory research only, not for drug, diagnostic or other use.

EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz