

CD41 (Integrin Alpha) (EP178)


Rabbit anti-human CD41/Integrin alpha II b Monoclonal Antibody (Clone EP178)

REFERENCES AND PRESENTATIONS¹

- **ready-to-use (manual or LabVision AutoStainer)**
MAD-000663QD-3
MAD-000663QD-7
MAD-000663QD-12
- **Ready-to-use (MD-Stainer)²**
MAD-000663QD-3/V
MAD-000663QD/V
- **concentrated**
MAD-000663Q - 1:50 recommended dilution

COMPOSITION

Anti-human CD41 rabbit monoclonal antibody purified from serum and prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide

INTENDED USE : Immunohistochemistry (IHC) on paraffin embedded tissues. Not tested on frozen tissues or Western-Blotting

CLONE: EP178³

Ig ISOTYPE: Rabbit IgG

IMMUNOGEN: A synthetic peptide corresponding to residues of human CD41/Integrin alpha IIb protein.

SPECIES REACTIVITY: In vitro diagnostics in humans. Not tested in other species

DESCRIPTION AND APPLICATIONS:

CD41, also named GP IIb, is a protein that in human is encoded by the ITGA2B gene. This protein can be associated with GPIIIa to form a heterodimer complex (GPIIb-IIIa) in the presence of Ca²⁺. This complex can bind one of four different adhesive proteins (ie, fibrinogen, fibronectin, von Willebrand factor or vitronectin). CD41 expression has been found on platelets, megakaryocytes, and, more recently, on immature hematopoietic progenitors.

CD41 is a reliable marker of early steps of hematopoiesis during embryonal stem cells



differentiation. CD41 has been used as a marker for megakaryocytic differentiation.

IHC POSITIVE CONTROL: Bone marrow

VISUALIZATION: Cell membrane and cytoplasm

IHC RECOMMENDED PROCEDURE:

- 4µm thick section should be taken on charged slides; dry overnight at 60°C
- Deparaffinise, rehydrate and HIER (heat induced epitope retrieval) – boil tissue in the Pt Module using Vitro S.A EDTA buffer pH8⁴ for 20 min at 95°C. Upon completion rinse with 3-5 changes of distilled or deionised water followed by cooling at RT for 20 min
- Endogenous peroxidase block - Blocking for 10 minutes at room temperature using peroxidase solution (ref. MAD-021540Q-125)
- Primary antibody: incubate for 10 minutes [The antibody dilution (when concentrated) and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory]
- For detection use Master Polymer Plus Detection System (HRP) (DAB included; ref. MAD-000237QK)
- Counterstaining with haematoxylin and final mounting of the slide

STORAGE AND STABILITY:  Stored at 2-8°C. Do not freeze.  Once the packaging has been opened it can be stored until the expiration date of the reagent indicated on the label. If the reagent has been stored under other conditions to those indicated in this document, the user must first check its correct performance taking into account the product warranty is no longer valid.

WARNINGS AND PRECAUTIONS:

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

¹ These references are for presentation in vials of Low Density Polyethylene (LDPE) dropper. In case the products are used in automated stainers, a special reference is assigned as follows:

- / L: Cylindrical screw-cap vials (QD-3 / L, QD-7 / L, QD-12 / L).

- / N: Polygonal screw-cap vials (QD-3 / N, QD-7 / N, QD-12 / N).

For different presentations (references / volumes) please contact the supplier.

² For Technical specifications for MD-Stainer, please contact your distributor.

³ CD41 clone EP178 is manufactured using Eptomics's RabMAB® technology under U.S. Patent Nos. 5,675,063 and 7,402,409

⁴ Ref: MAD-004072R/D



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Rev.: 2020-09-21

SAFETY RECOMMENDATIONS










This product is intended for laboratory professional use only. The product is NOT intended to be used as a drug or for domestic purposes. The current version of the Safety Data Sheet for this product can be downloaded by searching the reference number at www.vitro.bio or can be requested at regulatory@vitro.bio.

BIBLIOGRAPHY

1. Bray PF, Rosa JP, Johnston GI, Shiu DT, Cook RG, Lau C, Kan YW, McEver RP, Shuman MA. Platelet glycoprotein IIb. Chromosomal localization and tissue expression. J Clin Invest; 80(6): 1812-1817. 1987.
2. Hiraiwa A, Matsukage A, Shiku H, Takahashi T, Naito K, Yamada K. Purification and partial amino acid sequence of human platelet membrane glycoproteins IIb and IIIa. Blood; 69: 560-564. 1987.
3. Iványi JL, Kiss A, Telek B, Tornai I. Megakaryocyte markers in myeloproliferative disorders. Acta Histochem; 95(1):79-88. 1993.
4. Nagai K, Sohda H, Kuriyama K, Kamihira S, Tomonaga M. Usefulness of immunocytochemistry for phenotypical analysis of acute leukemia; improved fixation procedure and comparative study with flow cytometry. Leuk Lymphoma; 16(3-4):319-327. 1995

LABEL AND BOX SYMBOLS

Explanation of the symbols of the product label and box:

	Expiration date
	Temperature limit
	Manufacturer
	Sufficient content for <n> assays
	Catalog number
	Lot code
	Refer to the instructions of use
	Medical product for <i>in vitro</i> diagnosis.
	Material safety data sheet