

CD11b (Integrin Alpha-M) (EP45)

Rabbit anti-human CD11b (Integrin Alpha-M) Monoclonal Antibody (Clone EP45)

REFERENCES AND PRESENTATIONS¹

- **ready-to-use (manual or LabVision AutoStainer)**
MAD-000647QD-3
MAD-000647QD-7
MAD-000647QD-12
- **Ready-to-use (MD-Stainer)²**
MAD-000647QD-3/V
MAD-000647QD/V
- **concentrated**
MAD-000647Q - 1:50 recommended dilution

COMPOSITION

Anti-human CD11b (Integrin Alpha-M) 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: EP45³

Ig ISOTYPE: IgG

IMMUNOGEN: Synthetic peptide corresponding to human protein CD11b/ITAM.

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

DESCRIPTION AND APPLICATIONS:

Integrin alpha-M (ITAM, ITGAM, CD11b, Mac-1 alpha subunit, C3 alpha chain) is the alpha subunit of the ITAM/beta-2 complex, also named CD11b/CD18 or Mac-1, a leukocyte adhesion heterodimeric glycoprotein. CD11b is involved in monocyte, macrophage, and granulocyte adhesion.

CD11b is mainly expressed in myeloid cells of human origin, NK1 cells, monocytes, and granulocytes.

In neoplasms, CD11b is useful for the identification of acute myeloid leukaemias (AML) (AML with inv(16) or t(16;16), AML with 11q23/MLL abnormalities,

myeloblastic AML with minimal differentiation, myelomonocytic AML, acute monoblastic leukaemia, and acute monocytic leukaemia), where blasts may express CD11b among other molecules of monocytic differentiation. CD11b is also expressed in T-cell large granular lymphocyte leukaemias and in aggressive NK-cell leukaemias.

IHC POSITIVE CONTROL: Tonsil tissue section.

VISUALIZATION: Cell membrane.

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.

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 CD11b Clone 45 is manufactured using Epitomics's RabMAb® technology under U.S. Patent Nos. 5,675,063 and 7,402,409

⁴ Ref: MAD-004072R/D



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3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

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. Corbi AL, Kishimoto TK, Miller LJ, Springer TA. The human leukocyte adhesion glycoprotein Mac-1 (complement receptor type 3, CD11b) alpha subunit. Cloning, primary structure, and relation to the integrins, von Willebrand factor and factor B. J Biol Chem; 263(25): 12403-11. 1988.
2. Swerdlow, S.H., Campo, E., Harris, N.L., Jaffe, E.S., Pileri, S.A., Stein, H., Thiele, J., Vardiman, J.WWHO Classification of Tumours of Haematopoietic and Lymphoid Tissues, Fourth Edition, Ed IARC, 2008.

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