

Anti- Human MNDA (3C1)

Fluorochrome	Reference	Size
FITC	MNDAF-100T	100 test

PRODUCT DESCRIPTION

Clone: 3C1

Isotype: IgG1

Tested application: flow cytometry

Immunogen: The anti-MNDA monoclonal antibody derives from concentrated nuclear protein extract prepared from late stage human myeloid leukemia HL-60 cells.

Species reactivity: Human

Storage instruction: store in the dark at 2-8 °C

Storage buffer: aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN₃).

Recommended usage: Immunostep's MNDA, clone 3C1, is a monoclonal antibody intended for the identification and enumeration of myeloid nuclear differentiation antigen using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10⁶ cells.

Presentation: liquid

Source: Supernatant proceeding from an *in vitro* cell culture of a cell hybridoma.

Purification: Affinity chromatography.

ANTIGEN DETAILS

Large description: This antibody is a 407 amino acid nuclear hematopoietic protein of the interferon inducible p200-family proteins, and its encoding gene is located at chromosomal band 1q21-22 (23, 24). It is capable of DNA binding and mediating protein-protein interaction, thereby slowing down proliferation, modulating cell survival and promoting differentiation (25). MNDA is expressed in maturing normal and neoplastic myelomonocytic cells, a subset of lymphocytes and some lymphomas but not in other human cells or tissues. Its expression mounts with differentiation, the highest expression shown in mature granulocytes and monocytes (23, 26). MNDA expression has been proven to be diminished on mRNA and protein levels in patients with familial and sporadic MDS (25, 27, 28)⁽¹⁻⁴⁾

Other Names: myeloid cell nuclear differentiation antigen.

Gene ID: 4332

Molecular weight: 12-14 kDa

Please, refer to www.immunostep.com technical support for more information.

WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties. Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

REFERENCES

1. Johnson RC, Kim J, Natkunam Y, Sundram U, Freud AG, Gammon B, et al. Myeloid Cell Nuclear Differentiation Antigen (MNDA) Expression Distinguishes Extramedullary Presentations of Myeloid Leukemia From Blastic Plasmacytoid Dendritic Cell Neoplasm. *Am J Surg Pathol* Apr;40(4):502-9.
2. Metcalf RA, Monabati A, Vyas M, Roncador G, Gualco G, Bacchi CE, et al. Myeloid cell nuclear differentiation antigen is expressed in a subset of marginal zone lymphomas and is useful in the differential diagnosis with follicular lymphoma. *Hum Pathol* Aug;45(8):1730-6.
3. Cousar JB, Briggs RC. Expression of human myeloid cell nuclear differentiation antigen (MNDA) in acute leukemias. *Leuk Res* 1990;14(10):915-20.
4. Burrus GR, Briggs JA, Briggs RC. Characterization of the human myeloid cell nuclear differentiation antigen: relationship to interferon-inducible proteins. *J Cell Biochem* 1992 Feb;48(2):190-202.

MANUFACTURED BY



Immunostep S.L.

Avda. Universidad de Coimbra, s/n
Cancer Research Center (CIC)
Campus Miguel de Unamuno
37007 Salamanca (Spain)
Tel. (+34) 923 294 827
www.immunostep.com