

PN IM2115 - 6 mL - Liquid - Ready-to-use - Clone MAB89

For Research Use Only. Not for use in diagnostic procedures.

SPECIFICITY

CD40 is a single chain type I transmembrane glycoprotein of 85kDa, member of the tumor necrosis factor receptor (TNF-R) family (1). Its ligation by CD40L (CD154) involves CD40 in growth, differentiation and cell responses of various cells, including B cells, dendritic cells, macrophages. CD40 is expressed by normal (appearing on CD34+ progenitors, absent from plasma cells) and neoplastic B cells, Hodgkin and Reed-Sternberg cells, interdigitating dendritic cells and Langerhans cells (2), macrophages, follicular dendritic cells, fibroblasts, epithelial cells, and keratinocytes (1-3). The MAB89 mAb has been assigned to the CD40 cluster of differentiation during the 6th International Workshop on Human Leucocyte Differentiation Antigens (HLDA) in Kobe, Japan, in 1996 (WS Code: CD40.1, Section B; WS Code :83, Section BP) (1).

REAGENT

IOPath® CD40 Unconjugated Antibody
PN IM2115 - 6 mL - Liquid - Ready-to-use

Clone MAB89
Isotype IgG1, mouse
Immunogen Anti-μ-activated tonsillar human B cells
Hybridoma Myeloma NS1 X BP mouse spleen cells.
Source Ascites fluid
Purification Ion exchange or affinity chromatography

REAGENT CONTENTS

This antibody is provided in 50 mM Tris-HCl, 150 mM NaCl, pH 7.4 with 1 mg/mL bovine serum albumin and 0.1 % sodium azide. The buffer contains a green dye.

APPLICATION

Immunohistochemistry on frozen or fixed, paraffin-embedded tissue sections.

STATEMENTS OF WARNING

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze.

REAGENT PREPARATION

No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

PROCEDURE

The pre-diluted form should be used without dilution.

SELECTED RESEARCH REFERENCES

1. Challa, A., Holder, M., Baker, M., Pound, J., Gordon, J., "CD40 Workshop panel report" Leukocyte Typing VI 1996; 159-161.
2. Peguet-Navarro, J., Dalbiez-Gauthier, C., Rattis, FM., Van Kooten, C., Banchereau, J., Schmitt, D., "Functional expression of CD40 antigen on human epidermal Langerhans cells" J Immunol. 1995 Nov 1;155(9): 4241-7.
3. Valle, A., Zuber, CE., Defrance, T., Djossou, O., De Rie, M., Banchereau, J., "Activation of human B lymphocytes through CD40 and interleukin 4". Eur J Immunol. 1989 Aug ;19(8): 1463-7.

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