

Mouse CD40 Monoclonal Antibody | anti-CD40 antibody

MOUSE ANTI HUMAN CD40

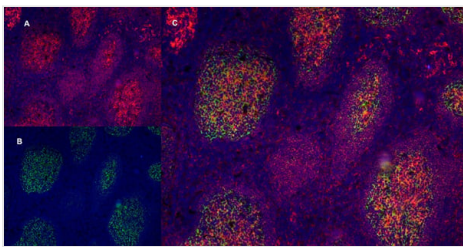
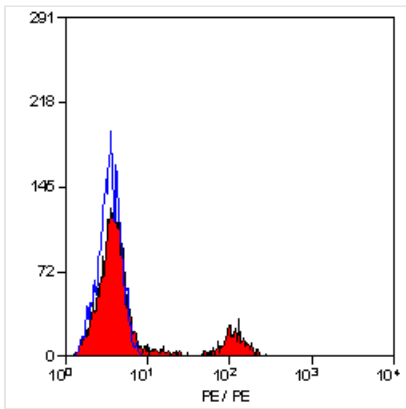
CATALOG #	HOST	APPLICATIONS
AAA12090	Mouse	Immunohistochemistry, Flow Cytometry, Functional Assay, Immunoprecipitation, Immunohistochemistry

PRODUCT SYNONYMS

CD40; Monoclonal Antibody; MOUSE ANTI HUMAN CD40; anti-CD40 antibody

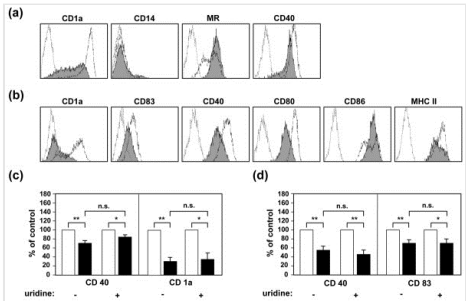
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	LOB7/6
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	277
Applicable Applications for anti-CD40 antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), IHC (Immunohistochemistry)
Application Notes	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul. Immunohistology - Frozen: Minimum Dilution: 1ug/ml; Maximum Dilution: 10ug/ml Flow Cytometry: Maximum Dilution: 20ug/ml Immunohistology - Paraffin: Minimum Dilution: 1ug/ml; Maximum Dilution: 10ug/ml; Application Note: This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase.
Perservative Stabilisers	0.09% Sodium Azide Preparation
Immunogen	CD40 Ig(Fc) fusion protein containing the EC region of human CD40 and Fc region of human IgG Histology Positive Control Tissue
Target Species	Human
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.

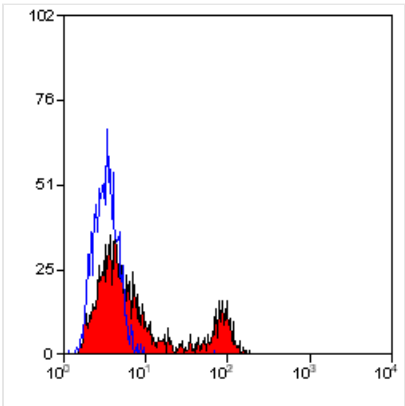


Application Data
Immunofluorescence staining of a human tonsil cryostat section with Mouse anti Human CD40 antibody, clone LOB7/6 , red in A and Mouse anti Human CD21 antibody, clone LB21 , green in B. The merged image is C with nuclei counterstained blue using DAPI. Low power

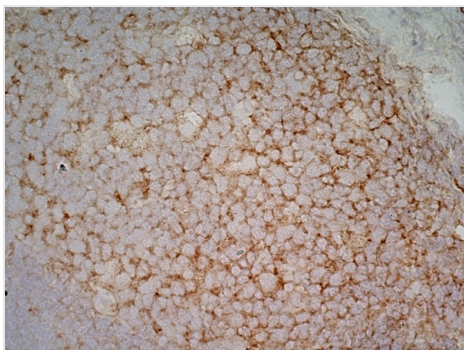
Application Data
Staining of human peripheral blood lymphocytes with Mouse anti Human CD40:RPE



Application Data
Published customer image: LEF-M interferes with DC differentiation. (a) Monocytes were cultured for 5 days with granulocyte -macrophage colony-stimulating factor (GM-CSF; 50 ng/ml) plus IL-4 (10 ng/ml) in the absence or presence of 150 μ mol/l of the active metabolite of leflunomide (LEF-M). Subsequently, surface marker expression was determined using fluorescence-activated cell sorting (FACS) analysis. Open profiles with dotted line represent staining pattern with an isotype control antibody, open profiles with fine line indicate the staining pattern of differentiated control dendritic cells (DCs) stained with the indicated mAbs, whereas solid grey profiles show staining of DCs differentiated in the presence of LEF-M. (b) Myeloid precursor cells differentiated in the presence of LEF-M are resistant to maturation. Cells were treated as described above and then stimulated with lipopolysaccharide (LPS; 100 ng/ml) for 48 hours. Open profiles with dotted line represent staining pattern with an isotype control antibody, open profiles with fine line indicate staining of activated control DCs, and solid grey profiles show staining of DCs differentiated in the presence of LEF-M and subsequently exposed to LPS. Data are representative of at least four independent experiments. (c,d) The effects of LEF-M on DC differentiation are independent of pyrimidine depletion. The respective change in mean fluorescence intensity (MFI) are shown (c) after the differentiation phase for CD40 and CD1a and (d) after subsequent maturation with 100 ng/ml LPS for CD40 and CD83 with and without 50 μ mol/l uridine. White bars represent control DCs, and black bars indicate LEF-M-treated cells. Shown are mean percentage control responses $\pm$ standard error of the mean, calculated from five to eight independent experiments. Student's t-tests were calculated for control versus LEF-M-treated DCs and for LEF-M-treated DCs versus without uridine addition, as indicated. *P < 0.05, **P < 0.01. From: Kirsch BM, Zeyda M, Stuhlmeier K, Grisar J, Smolen JS, Watschinger B, Stulnig TM, Hf1rl WH, Zlabinger GJ, Ssemann MD. The active metabolite of leflunomide, A77 1726, interferes with dendritic cell function. Arthritis Res Ther. 2005;7(3):R694-703.

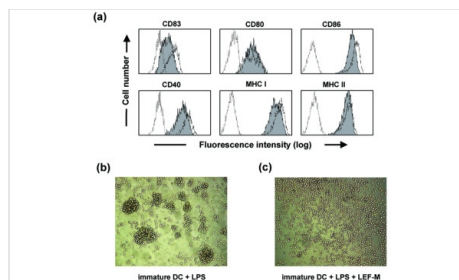


Application Data
Staining of human peripheral blood lymphocytes with Mouse anti Human CD40: Alexa Fluor 488



Application Data

Immunoperoxidase staining of a human tonsil cryosection with Mouse anti Human CD40 antibody, clone LOB7/6 followed by the Histar Detection system . High power



Application Data

Published customer image: Treatment with LEF-M during maturation of immature DCs leads to a differentially affected phenotype. Monocytes were cultured for 5 days with granulocyte - macrophage colony-stimulating factor (GM-CSF; 50 ng/ml) plus IL-4 (10 ng/ml). (a) On day 5 these immature dendritic cells (DCs; 5 x 10⁵/ml) were activated with lipopolysaccharide (LPS; 100 ng/ml) in the absence or presence of 150 µmol/l of the active metabolite of leflunomide (LEF-M) for 48 hours. Surface marker expression was determined by fluorescence-activated cell sorting analysis. Open profiles with dotted line represent the staining pattern with an isotype control, open profiles with fine line indicate the staining pattern of DC exposed to LPS with the indicated monoclonal antibodies, and solid grey profiles show staining of DCs matured in the presence of LEF-M. The results shown are representative of five independent experiments. (b,c) Effect of LEF-M on maturation-associated clustering of DCs; immature DCs were stimulated with LPS in the (panel b) absence or (panel c) presence of 150 µmol/l LEF-M. After 8 hours of cultivation, cells were analyzed by inspecting photomicrographs obtained by light microscopy. Similar results were obtained in four additional experiments. MHC, major histocompatibility complex. From: Kirsch BM, Zeyda M, Stuhlmeier K, Grisar J, Smolen JS, Watschinger B, Stulnig TM, Htjrl WH, Zlabinger GJ, Sæemann MD. The active metabolite of leflunomide, A77 1726, interferes with dendritic cell function. *Arthritis Res Ther.* 2005;7(3):R694-703.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507581
NCBI GeneID	958
NCBI Accession #	NP_001241.1
NCBI GenBank Nucleotide #	NM_001250.5
Molecular Weight	22,259 Da
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 5 isoform 1
NCBI Official Synonym Full Names	CD40 molecule, TNF receptor superfamily member 5
NCBI Official Symbol	CD40
NCBI Official Synonym Symbols	p50; Bp50; CDW40; TNFRSF5
NCBI Protein Information	tumor necrosis factor receptor superfamily member 5; B cell surface antigen CD40; B cell-associated molecule; CD40 antigen (TNF receptor superfamily member 5); CD40 type II isoform; CD40L receptor; nerve growth factor receptor-related B-lymphocyte activation molecule
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 5
UniProt Gene Name	CD40
UniProt Synonym Gene Names	TNFRSF5
UniProt Entry Name	TNR5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd40-antibody-clone-lob7-6-immunohistochemistry-flow-cytometry-immunoprecipitation-immunohistochemistry-elisa/12090>