CD40 / TNFRSF5 Monoclonal Mouse Antibody (C40/2383)



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Product Description

CD40 is a receptor on antigen-presenting cells of the immune system and is essential for mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. CD40 is expressed on B-lymphocytes, follicular dendritic cells, bone marrow-derived dendritic cells, thymic epithelium, and interdigitating cells in the T-cell zones of secondary lymphoid organs. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. **Stock status:** Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order. Catalog number key for antibody number 2383, Anti-CD40 / TNFRSF5 / CD40L-Receptor (C40/2383)

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Antibody reactivity (target) Antibody type Host species Mouse Clonality Monoclonal Clone C40/2383 Isotype IgG2b, kappa Molecular weight 43 kDa Synonyms B-cell surface antigen CD40; Bp50; CD40; CD40; CD40; CD50, ED70; CD40; CD40; ED70;	Product attributes			
Host species Mouse	Antibody number	#2383		
Host species Mouse Clonality Monoclonal Clone C40/2383 Isotype IgG2b, kappa Molecular weight 43 kDa Synonyms B-cell surface antigen CD40; Bp50; CD40; CD40; CD40; CD40; CD40; CD40; TGP39; HIGMT; IGM; IMD3; p50; TBAM; TNF receptor superfamily member 5; TNFRSF5; TRAP Human gene symbol CD40 Entrez gene ID 958 SwissProt P25942 Unigene 472860 Immunogen Recombinant fragment of human CD40 protein (around aa 29-107) (exact sequence is proprietary) Flow (verified), IHC (FFPE) (verified) Antibody target cellular localization Species reactivity Human Antibody application and the first detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin): 1-2 ug/mL for 30 minutes at RT, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes (ollowed by cooling at RT for 20 minutes, Optimal dilution for a specific application should be determined by user Positive control L-428 Cells. Tonsil, Spleen or Thymus Shipping conditions Storage Conditions Storage Conditions Corporation Storage Conditions Storage Conditions For at 2 to 8 °C. Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended Regulatory status For research use only (RUO) Antibody/conjugate formulation Antibody research areas Immunology Validated in protein Antibody research areas		CD40, CD40L-Receptor, TNFRSF5		
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IgG2b, kappa	Clonality	Monoclonal		
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Synonyms B-cell surface antigen CD40; Bp50; CD40; CD40; CD40; CD40; CP40; CP4	Isotype	IgG2b, kappa		
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• 55	Validated in protein	Monospecific		
Cell/tissue expression Antigen presenting cells	Antibody research areas	Immunology		
	Cell/tissue expression	Antigen presenting cells		

Email: btinfo@biotium.com

Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified,	N/A	N/A	N/A	

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