

Mouse Anti-human CD40 B-cells Carcinoma Clone EA-5, Monoclonal Antibody, Azide Free

Catalog No.:	CMC104	Size: 0.1 mg/0.1 mL
Description:	CD40 is expressed on peripheral blood and tonsillar B-cells, most B-cell lymphomas and leukemias, as well as several pre B-cell leukemias and some carcinomas. It is not present on most progenitor B-cell leukemias or terminally differentiated B-cells. The CD40 antigen shares structural homology with the nerve growth factor receptor. EA-5 competes for binding with the anti-CD40 monoclonal antibody G28-5 indicating similar epitope binding. Ligation of CD40 with this antibody causes decreased proliferation and up-regulation of IL-6 transcription with KTL-1 cells.	
Isotype:	IgG1	
Formulation:	Purified immunoglobulin in phosphate buffered saline. Preservative-free and carrier-free. Sterile-filtered through a 0.22 µm filter.	
Purification:	Purified from ascites.	
Recognition:	EA-5 immunoprecipitates proteins of 48 and 45 kDa. The 45 kDa band appears to be a degradative form of the larger protein.	
Applications:	This antibody is suitable for use in immunoprecipitation and flow cytometry with utility in B-cell precursor development studies. Use approximately 1 µg to label <math><10^6</math> cells for flow cytometry. The optimal antibody concentration should be determined for each specific application.	
Working Dilution:	Further dilutions should be made in medium or buffered solutions containing carrier protein, such as PBS with 0.1-1.0% BSA. Sodium azide (0.1%) may be added for long term storage of this product.	
Storage:	Store at <math><-20^{\circ}\text{C}</math>. Upon initial thawing, apportion the antibody into working aliquots and store at <math><-20^{\circ}\text{C}</math>. Avoid repeated freeze/thaw cycles.	

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