

CD40 Ligand / CD154 / TRAP1 (Activation Marker of T-Lymphocytes) Antibody

Mouse Monoclonal Antibody [Clone CD40LG/2763]

Catalog No	Format	Size
959-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
959-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
959-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

CD40LG/2763		
CD40LG		
Recombinant fragment of human CD40LG protein (around aa 108-261) (exact sequence is proprietary)		
Mouse		
Monoclonal		
IgG1 / Kappa		
36kDa		
Cell membrane, Cell surface, Secreted		
Human		
Jurkat cells. Human tonsil, spleen or thymus tissue (IHC).		

*Optimal dilution for a specific application should be determined.

Product Images for CD40 Ligand / CD154 / TRAP1 (Activation Marker of T-Lymphocytes) Antibody



Formalin-fixed, paraffin-embedded human Spleen stained with CD40 Ligand Mouse Monoclonal Antibody (CD40LG/2763).

1.0.		NR	R	
kDa				
250 —				
150 —		-		
.00				
75 —	-	-		2ug loading NR=Non-
50	_		-	reduced R=reduced
37				
25	-		-	
15				
10				

SDS-PAGE Analysis Purified CD40 Ligand Mouse Monoclonal Antibody (CD40LG/2763). Confirmation of Integrity and Purity of Antibody.





Immunofluorescence staining of Jurkat cells using CD40 Ligand Mouse Monoclonal Antibody (CD40LG/2763)followed by goat anti-Mouse IgG conjugated to CF488 (green). Nuclei are stained with Reddot.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing CD40 Mouse Ligand Monoclonal Antibody (CD40LG/2763) Z- and S- Score: The Zscore represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD?s) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD?s) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow Cytometric Analysis of Jurkat cells using CD40 Ligand Mouse Monoclonal Antibody (CD40LG/2763) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Formalin-fixed, paraffin-embedded human Spleen stained with CD40 Ligand Mouse Monoclonal Antibody (CD40LG/2763).

Specificity & Comments

CD40LG expression is mainly confined to the CD4-positive-T-cell subset. Its expression is induced shortly after T-cell activation and represents an early activation marker of T lymphocytes. CD40 is constitutively expressed mainly on B cells, macrophages, and dendritic cells. The CD40-CD40L pathway has been shown to play multiple functional roles in the healthy immune system. It enhances the antigen-specific T-cell response through the activation of dendritic cells and the induction of interleukin-12 production. For example, engagement of CD40 on endothelial cells by activated T cells expressing CD40L leads to upregulation of adhesion molecules such as ICAM-1, VCAM-1, and E-selectin. Activation of APC by CD40-CD40L interaction induces the production of inflammatory cytokines, chemokines, NO, and metalloproteinases. Interaction of CD4-positiveCD40LG-positiveT cells with CD40 on B cells leads to B-cell differentiation, proliferation, immunoglobulin (Ig) isotype switching, and formation of memory B cells.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8° C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Apoptosis, Autophagy, Cardiovascular, Immunology, AKT Signaling, Cytokine Signaling

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

