

For Research Use Only

CD40L/CD154 Monoclonal antibody

Catalog Number: 66502-1-Ig **4 Publications**



Basic Information

Catalog Number: 66502-1-Ig	GenBank Accession Number: BC071754	Purification Method: Protein A purification
Size: 150ul , Concentration: 1400 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 959	CloneNo.: 1E6D10
Source: Mouse	UNIPROT ID: P29965	Recommended Dilutions: WB 1:1000-1:6000
Isotype: IgG2a	Full Name: CD40 ligand	
Immunogen Catalog Number: AG24941	Calculated MW: 261 aa, 29 kDa	
	Observed MW: 30 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : Jurkat cells, human peripheral blood platelets
Cited Applications: IHC, IF	
Species Specificity: Human, rat	
Cited Species: human	

Background Information

The CD40 ligand (CD40L, TRAP, CD154), a member of the TNF superfamily of ligands, is expressed as either a 33-kd transmembrane homologue or 18-kd soluble form (sCD154). CD40L is primarily expressed on activated CD4+ T cells and on a small proportion of CD8+ T cells and platelets. It binds to CD40 on antigen-presenting cells (APC), which leads to many effects depending on the target cell type. Recent studies have suggested that CD40/CD40L interactions regulate oxidative stress and affect various signaling pathways in both the immunological and the cardiovascular systems. The CD40/CD40L system is also involved in tumorigenesis. Its expression is tightly regulated, and abnormal levels of CD40L are associated with the pathogenesis of atheromatous plaque destabilization and thrombotic events. Multiple mutations in CD40LG gene have been identified that are associated with hyper-IgM immunodeficiency syndrome type 1.

Notable Publications

Author	Pubmed ID	Journal	Application
YuanPing Hai	36128805	Thyroid	IHC
Nozomu Kurose	31358479	Pathol Res Pract	IHC
Yoshiaki Kobayashi	33647861	Pathol Res Pract	IHC

Storage

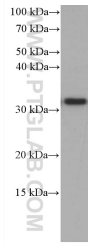
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 66502-1-Ig (CD40L/CD154 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.