

For Research Use Only

CD40L/CD154 Monoclonal antibody

Catalog Number: 66502-1-Ig

3 Publications



Basic Information

Catalog Number:

66502-1-Ig

Size:

1000 μ g/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG24941

GenBank Accession Number:

BC071754

GeneID (NCBI):

959

UNIPROT ID:

P29965

Full Name:

CD40 ligand

Calculated MW:

261 aa, 29 kDa

Observed MW:

30 kDa

Purification Method:

Protein A purification

CloneNo.:

1E6D10

Recommended Dilutions:

WB 1:1000-1:6000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

IHC

Species Specificity:

Human, rat

Cited Species:

human

Positive Controls:

WB : Jurkat cells, human peripheral blood platelets

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

For technical support and original validation data for this product please contact:

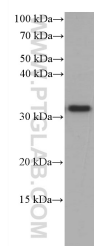
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.