For Research Use Only

CD40L/CD154 Polyclonal antibody

Catalog Number:16668-1-AP 15 Publications

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Basic Information

Catalog Number:
16668-1-AP

Size:
150ul , Concentration: 300 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10147

GenBank Accession Number:
BC071754

GeneID (NCBI):
959

UNIPROT ID:
P29965

Full Name:
CD40 ligand

Calculated MW:
261 aa, 29 kDa

Observed MW:
29-32 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF-P 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF-P, IP, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse small intestine tissue, HeLa cells, Jurkat cells

IP : Jurkat cells,

IHC : human tonsillitis tissue,

IF-P : human lung cancer tissue,

Background Information

The CD40 ligand (CD40L, TRAP, CD154), a member of the TNF superfamily of ligands, is expressed as either a 33 kDa transmembrane homologue or 18 kDa 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Fengshi Li	36274932	iScience	WB
Xueting Zhang	34678319	Toxicology	WB
Liyin Yu	33219021	Sci Adv	WB

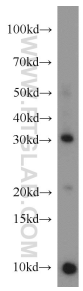
Storage

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

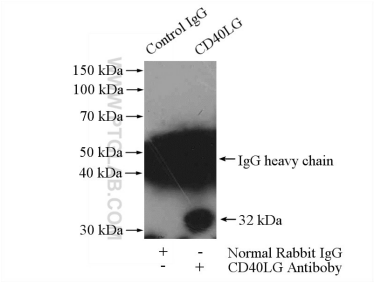
*** 20ul sizes contain 0.1% BSA

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

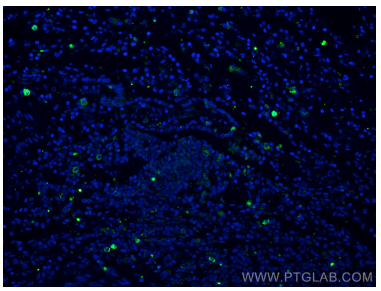
Selected Validation Data



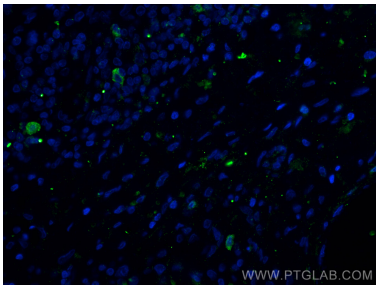
mouse small intestine tissue were subjected to SDS PAGE followed by western blot with 16668-1-AP (CD40LG antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-CD40L/CD154 (IP:16668-1-AP, 4ug; Detection:16668-1-AP 1:1000) with Jurkat cells lysate 3200ug.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human lung cancer tissue using CD40L/CD154 antibody (16668-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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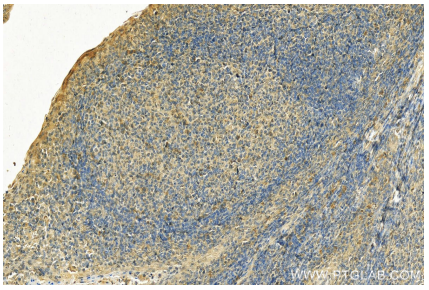

Immunohistochemical analysis of paraffin-embedded tonsillitis slide using 16668-1-AP (CD40L/CD154 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).