

Product Datasheet

CD40 Ligand Antibody / TRAP / CD154 (orb2642397)

Catalog Number	orb2642397
Category	Antibodies
Description	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.
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2b, kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	Prediluted in 1X PBS, 0.1 mg/ml rAlbumin, 0.05% sodium azide; For IHC use only
Purification	Protein G affinity chromatography

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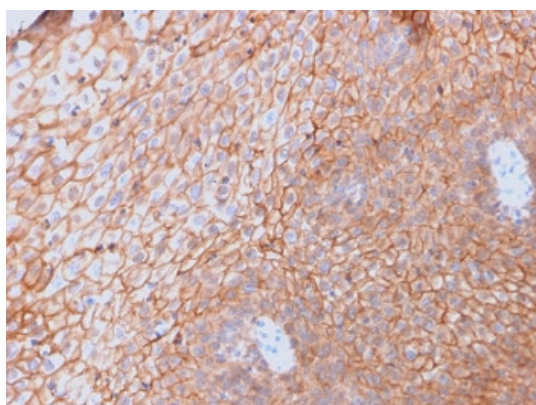
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Immunogen	A portion of amino acids 108-261 from the human protein was used as the immunogen for the CD40 Ligand antibody.
UniProt ID	P29965
Tested applications	IHC-P
Dilution range	The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Application notes	Optimal dilution of the CD40 Ligand antibody should be determined by the researcher.1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Antibody Type	Primary Antibody
Clone Number	CD40LG/2761
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



IHC testing of FFPE human spleen with CD40 Ligand antibody (clone CD40LG/2761). HIER: boil tissue sections in pH6, 10 mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.

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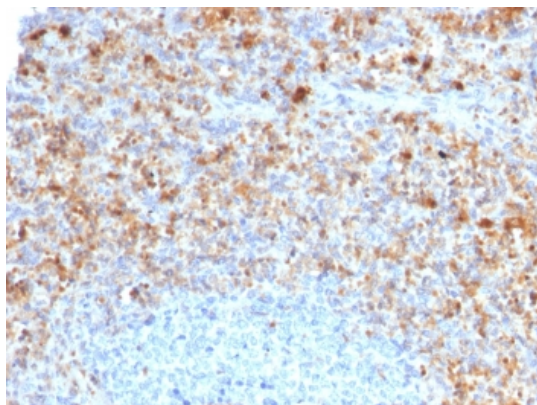
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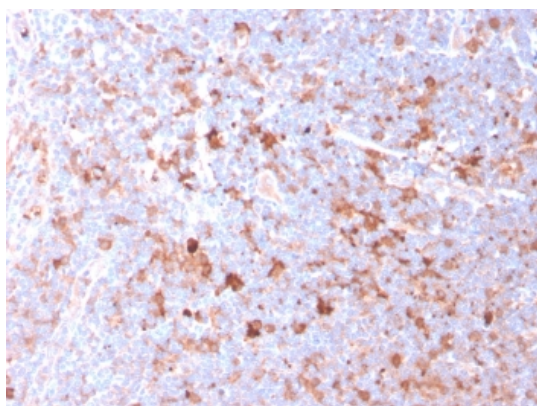
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IHC testing of FFPE human spleen with CD40 Ligand antibody (clone CD40LG/2761). HIER: boil tissue sections in pH6, 10 mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE human tonsil with CD40 Ligand antibody (clone CD40LG/2761). HIER: boil tissue sections in pH6, 10 mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.

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