

CD40 ligand rabbit pAb

Cat No.:ES20426

For research use only

Overview

Product Name	CD40 ligand rabbit pAb
Host species	Rabbit
Applications	WB; ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	WB 1:1000-2000 ELISA 1:5000-20000
Immunogen	Synthesized peptide derived from human CD40 ligand
Specificity	This antibody detects endogenous levels of Human CD40 ligand
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C . Avoid repeated freeze-thaw cycles.
Protein Name	CD40 ligand
Gene Name	CD40LG CD40L TNFSF5 TRAP
Cellular localization	Cell membrane ; Single-pass type II membrane protein . Cell surface .; [CD40 ligand, soluble form]: Secreted . Release of soluble CD40L from platelets is partially regulated by GP IIb/IIIa, actin polymerization, and a matrix metalloproteinases (MMP) inhibitor-sensitive pathway. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	
Human Gene ID	959
Human Swiss-Prot Number	P29965
Alternative Names	CD40 ligand (CD40-L;T-cell antigen Gp39;TNF-related activation protein;TRAP;Tumor necrosis factor ligand superfamily member 5;CD antigen CD154) [Cleaved into: CD40 ligand, membrane form; CD40 ligand, soluble form]





Background

disease: Defects in CD40LG are the cause of X-linked immunodeficiency with hyper-IgM type 1 (HIGM1) [MIM:308230]; also known as X-linked hyper IgM syndrome (XHIM). HIGM1 is an immunoglobulin isotype switch defect characterized by elevated concentrations of serum IgM and decreased amounts of all other isotypes. Affected males present at an early age (usually within the first year of life) recurrent bacterial and opportunistic infections, including *Pneumocystis carinii* pneumonia and intractable diarrhea due to cryptosporidium infection. Despite substitution treatment with intravenous immunoglobulin, the overall prognosis is rather poor, with a death rate of about 10% before adolescence.

function: Mediates B-cell proliferation in the absence of co-stimulus as well as IgE production in the presence of IL-4. Involved in immunoglobulin class switching.

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online information: CD40L defect database, PTM: N-linked glycan is a mixture of high mannose and complex type. Glycan structure does not influence binding affinity to CD40.

PTM: Not O-glycosylated.

PTM: The soluble form derives from the membrane form by proteolytic processing.

similarity: Belongs to the tumor necrosis factor family.

subunit: Homotrimer.

tissue specificity: Specifically expressed on activated CD4+ T-lymphocytes.

