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Product datasheet for AP01120PU-N

CD40L (CD40LG) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	**Sandwich ELISA:** To detect Human sCD40 Ligand (using 100 µl/well antibody solution) a concentration of 0.5-2.0 µg/ml is required. In conjunction with Biotinylated Anti-Human sCD40-Ligand (Cat.-No AP01120BT-N or AP01120BT-S) as a detection antibody, it allows the detection of at least 0.2-0.4 ng/well of recombinant Human sCD40-Ligand. **Western Blot:** To detect Human sCD40-Ligand by Western blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Human sCD40-Ligand is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions. **Immunohistochemistry on Paraffin sections:** 2.5-5.0 µg/ml, Overnight at 4°C. This antibody stained sections of human cervical squamous cell carcinoma. An HRP-labeled polymer detection system was used with a DAB Chromogen. Heat induced antigen retrieval with a pH 6.0 Sodium citrate buffer is recommended.
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Highly pure (> 98%) E.coli derived recombinant Human sCD40L*Cat.-No* PA151
Specificity:	This antibody detects Human sCD40 Ligand / CD154.
Formulation:	PBS, pH 7.2 State: Aff - Purified State: Lyophilized (sterile filtered) purified Ig fraction
Reconstitution Method:	Centrifuge vial prior to opening. Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Immunoaffinity Chromatography employing immobilized Human sCD40 Ligand matrix
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for at least two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.

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Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 150 kDa
Gene Name:	CD40 ligand
Database Link:	Entrez Gene 959 Human P29965
Background:	CD40 ligand (CD40L) is a 33 kDa type II membrane glycoprotein expressed mainly on the cell surface of activated T lymphocytes, but also exists as a soluble form extracellularly. CD40L is the ligand for CD40, a member of the TNF superfamily, which is expressed on the cell surface of B cells, macrophages/monocytes, dendritic cells, vascular endothelial cells, and epithelial cells. CD40L plays an important role in B cell proliferation, antibody class switching, modulation of apoptosis in the germinal center through interaction with B cells expressing CD40, and activation of CD4+ T cells. Mutation within the CD40L gene is linked to hyper IgM syndrome, an X linked immunodeficiency disease that is characterized by elevated level of serum IgM and decreased level of other isotypes.
Synonyms:	CD40 ligand, CD40-L, CD40LG, TNFSF5, TRAP, GP39