

## Product datasheet for **AP01120PU-S**

### CD40L (CD40LG) Goat Polyclonal Antibody

#### Product data:

|                        |  |
|------------------------|--|
| Product Type:          | Primary Antibodies   |
| Applications:          | ELISA, IHC, WB   |
| Recommended Dilution:  | <b>Sandwich ELISA:</b> 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.<br><b>Western Blot:</b> 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.<br><b>Immunohistochemistry on Paraffin sections:</b> 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 <i>Cat.-No</i> PA151   |
| Specificity:           | This antibody detects Human sCD40 Ligand / CD154.  |
| Formulation:           | PBS, pH 7.2<br>State: Aff - Purified<br>State: Lyophilized (sterile filtered) purified Ig fraction   |
| Reconstitution Method: | Centrifuge vial prior to opening.<br>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.<br>Following reconstitution store undiluted at 2-8°C for at least two weeks or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.  |



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| <b>Stability:</b>              | Shelf life: one year from despatch.  |
| <b>Predicted Protein Size:</b> | ~ 150 kDa  |
| <b>Gene Name:</b>              | CD40 ligand  |
| <b>Database Link:</b>          | <a href="#">Entrez Gene 959 Human P29965</a>   |
| <b>Background:</b>             | 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. |
| <b>Synonyms:</b>               | CD40 ligand, CD40-L, CD40LG, TNFSF5, TRAP, GP39  |