

# Anti-CD28L / CD80 Reference Antibody (galiximab)

Recombinant Antibody

Catalog # APR10515

## Product Information

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|--------------------------|----------------------------|
| <b>Application</b>       | FC, Kinetics, Animal Model |
| <b>Primary Accession</b> | <a href="#">P33681</a>     |
| <b>Reactivity</b>        | Human                      |
| <b>Clonality</b>         | Monoclonal                 |
| <b>Isotype</b>           | IgG1                       |
| <b>Calculated MW</b>     | 33048                      |

## Additional Information

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|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Target/Specificity</b> | CD28L / CD80                                                                                                                     |
| <b>Endotoxin</b>          |                                                                                                                                  |
| <b>Conjugation</b>        | Unconjugated                                                                                                                     |
| <b>Expression system</b>  | CHO Cell                                                                                                                         |
| <b>Format</b>             | Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column. |

## Protein Information

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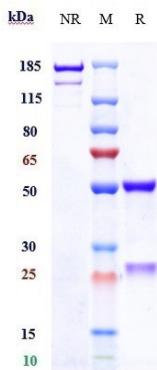
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Name</b>     | CD80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b> | CD28LG, CD28LG1, LAB7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Function</b> | Costimulatory molecule that belongs to the immunoglobulin superfamily that plays an important role in T-lymphocyte activation (PubMed: <a href="#">38467718</a> ). Acts as the primary auxiliary signal augmenting the MHC/TCR signal in naive T-cells by acting as a ligand for the CD28 receptor which is constitutively expressed on the cell surface of T-cells (PubMed: <a href="#">12196291</a> ). In turn, activates different signaling pathways such as NF-kappa-B or MAPK leading to the production of different cytokines (PubMed: <a href="#">10438913</a> ). Also acts as an inhibitor of T-cell activation by acting as a ligand for CTLA4, a decoy receptor, thereby blocking CD28-mediated T-cell priming (PubMed: <a href="#">10583602</a> , PubMed: <a href="#">11279502</a> ). In addition, CD28/CD80 costimulatory signal stimulates glucose metabolism and ATP synthesis of T-cells by activating the PI3K/Akt signaling pathway (PubMed: <a href="#">12121659</a> ). Also acts as a regulator of PDL1/PDCD1 interactions to limit excess engagement of PDL1 and its inhibitory role in immune responses (PubMed: <a href="#">36727298</a> ). Expressed on B-cells, plays a critical role in regulating interactions between B-cells and T-cells in both early and late germinal center responses, which are crucial for the generation of effective humoral immune responses (By similarity). |

**Cellular Location**

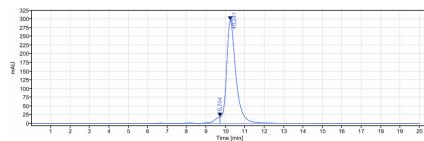
Cell membrane; Single-pass type I membrane protein

**Tissue Location**

Expressed on the surfaces of antigen-presenting cells.

**Images**

Anti-CD28L / CD80 Reference Antibody (galiximab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-CD28L / CD80 Reference Antibody (galiximab) is more than 95.08% ,determined by SEC-HPLC.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.