

## Recombinant CD80 (B7-1) Antibody

Rabbit Monoclonal Antibody [Clone C80/13144R]

Catalog No	Format	Size
941-RBM11-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
941-RBM11-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
941-RBM11-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
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### Product Details

<b>Clone</b>	C80/13144R
<b>Immunogen</b>	Recombinant full-length human CD80 protein corresponding to ECD
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG / Kappa
<b>Mol. Weight of Antigen</b>	33.05kDa
<b>Cellular Localization</b>	Cell membrane
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Expressed on activated B-cells, macrophages and dendritic cells

\*Optimal dilution for a specific application should be determined.

### Product Images for Recombinant CD80 (B7-1) Antibody

#### Specificity & Comments

Costimulatory molecule that belongs to the immunoglobulin superfamily that plays an important role in T-lymphocyte activation (PubMed:38467718). Acts as the primary auxiliary signal augmenting the MHC/TCR signal in naive T-cells together with the CD28 receptor which is constitutively expressed on the cell surface of T-cells (PubMed:12196291). In turn, activates different signaling pathways such as NF-kappa-B or MAPK leading to the production of different cytokines (PubMed:10438913). In addition, CD28/CD80 costimulatory signal stimulates glucose metabolism and ATP synthesis of T-cells by activating the PI3K/Akt signaling pathway (PubMed:12121659). Also acts as a regulator of PDL1/PDCD1 interactions to limit excess engagement of PDL1 and its inhibitory role in immune responses (PubMed:36727298). 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)., (Microbial infection) Acts as a receptor for adenovirus subgroup B.

#### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

#### Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

#### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.