

## Product datasheet for **TA320292**

### **B7-1 (CD80) Mouse Monoclonal Antibody [Clone ID: 2D10.4]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	2D10.4
Recommended Dilution:	Flow
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	CD80 molecule
Database Link:	<a href="#">NP_005182</a> <a href="#">Entrez Gene 941 Human</a> <a href="#">P33681</a>

**Background:** The 2D10.4 monoclonal antibody reacts with human CD80 (B7-1), a 60 kDa member of the Ig superfamily. CD80 is expressed by activated B cells, macrophages and dendritic cells. In addition, activated T cells express this antigen. CD80 has high affinity for binding to two T cell surface antigens, CD28 and CD152 (CTLA-4). The interaction of CD28 and CD152 with CD80 is crucial in T-B cell communication leading to activation of T and B cells, respectively.

**Synonyms:** B7; B7-1; B7.1; BB1; CD28LG; CD28LG1; LAB7

**Protein Families:** Druggable Genome, Transcription Factors, Transmembrane

**Protein Pathways:** Allograft rejection, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Graft-versus-host disease, Systemic lupus erythematosus, Toll-like receptor signaling pathway, Type I diabetes mellitus, Viral myocarditis



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