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Product datasheet for TA320291

B7-1 (CD80) Hamster Monoclonal Antibody [Clone ID: 16-10A1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	16-10A1
Applications:	FC
Recommended Dilution:	Flow, IHC, Functional Assay, IP
Reactivity:	Canine, Mouse, Pig
Host:	Hamster
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:	NP_005182 Entrez Gene 12519 Mouse P33681
Background:	The 16-10A1 monoclonal antibody reacts with mouse CD80 (B7-1), a 55 kDa member of the Ig superfamily. CD80 is expressed by macrophages, dendritic cells and activated B 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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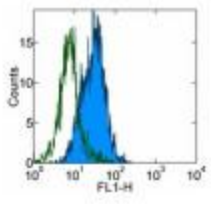
Product images:



Staining of 3-day LPS-stimulated BALB/c splenocytes with 0.25 ug of Armenian Hamster IgG Isotype Control Purified (open histogram) or 0.25 ug of Anti-Mouse CD80 (B7-1) Purified (filled histogram) followed by Anti-Armenian Hamster IgG FITC. Total viable cells were used for analysis.