ARG62932
anti-CD80 antibody [16-10A1]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Hamster Monoclonal antibody [16-10A1] recognizes CD80
Tested Reactivity	Ms, Dog
Tested Application	CyTOF®-candidate, FACS, FuncSt, ICC/IF, IHC-Fr, IP
Specificity	The clone 16-10A1 reacts with CD80 (B7-1), a 60 kDa single chain type I glycoprotein of immunoglobulin supergene family, expressed on professional antigen-presenting cells, such as dendritic cells, macrophages or activated B lymphocytes.
Host	Hamster
Clonality	Monoclonal
Clone	16-10A1
Isotype	IgG2
Target Name	CD80
Species	Mouse
Immunogen	Mouse CD80-transfected CHO cell line.
Conjugation	Un-conjugated
Alternate Names	B7.1; CTLA-4 counter-receptor B7.1; CD28LG; T-lymphocyte activation antigen CD80; B7-1; CD28LG1; B7; LAB7; Activation B7-1 antigen; CD antigen CD80; BB1

Application Instructions

Application table

Application	Dilution
CyTOF®-candidate	Assay-dependent
FACS	1 - 4 µg/ml
FuncSt	Assay-dependent
ICC/IF	Assay-dependent
IHC-Fr	Assay-dependent
IP	Assay-dependent

Application Note

Functional study: Functions as blocking.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

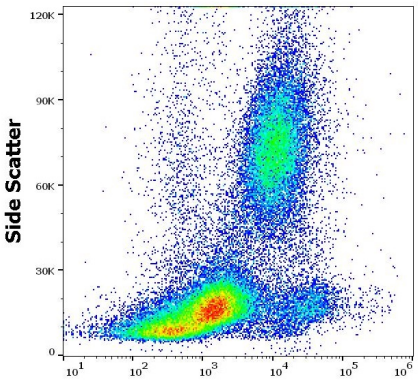
Form	Liquid
Purification	Purified from hybridoma culture supernatant by protein-A affinity chromatography.

Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

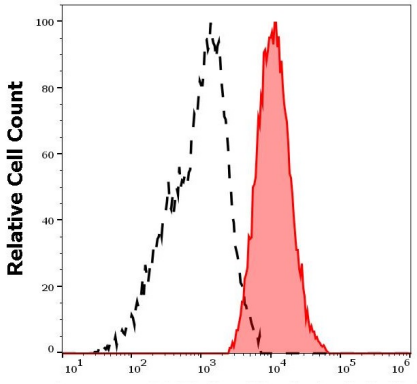
Database links	GeneID: 12519 Mouse Swiss-port # Q00609 Mouse
Gene Symbol	Cd80
Gene Full Name	CD80 antigen
Background	CD80 (B7-1) and CD86 (B7-2) are ligands of T cell critical costimulatory molecule CD28 and of an inhibitory receptor CTLA-4 (CD152). The both B7 molecules are expressed on professional antigen-presenting cells and are essential for T cell activation, the both molecules can also substitute for each other in this process. The question what are the differences in CD80 and CD86 competency has not been fully elucidated yet; there are still conflicts in results about their respective roles in initiation or sustaining of the T cell immune response.
Function	Involved in the costimulatory signal essential for T lymphocytes activation. T-cell proliferation and cytokine production is induced by the binding of CD28 or CTLA-4 to this receptor. [UniProt]
Highlight	Related products: CD80 antibodies; CD80 ELISA Kits; Anti-Hamster IgG secondary antibodies; Related news: CyTOF-candidate Antibodies
Research Area	Developmental Biology antibody; Immune System antibody
Calculated Mw	33 kDa

Images



ARG62932 anti-CD80 antibody [16-10A1] FACS image

Flow Cytometry: Murine peripheral whole blood stained with ARG62932 anti-CD80 antibody [16-10A1] at 2 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG62932 anti-CD80 antibody [16-10A1] FACS image

Flow Cytometry: Separation of murine CD80 positive monocytes (red-filled) from CD80 negative lymphocytes (black-dashed). Murine peritoneal fluid cells stained with ARG62932 anti-CD80 antibody [16-10A1] at 2 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.