

ARG65354 anti-CD28 antibody [CD28.2] (low endotoxin)

Package: 100 µg
Store at: -20°C

Summary

Product Description	Azide free and low endotoxin Mouse Monoclonal antibody [CD28.2] recognizes CD28
Tested Reactivity	Hu, NHuPrm
Tested Application	FACS, FuncSt, ICC/IF, IHC-Fr, IP, WB
Specificity	The clone CD28.2 reacts with CD28, a disulfide-linked homodimeric type I glycoprotein (monomer of Mw 44 kDa) which is a critical costimulatory receptor of T cells. HLDA V.; WS Code 5T CD28.05
Host	Mouse
Clonality	Monoclonal
Clone	CD28.2
Isotype	IgG1
Target Name	CD28
Species	Human
Immunogen	DC28.1.3.3 murine T cell hybridoma transfected with human CD28 cDNA
Conjugation	Un-conjugated
Alternate Names	Tp44; TP44; T-cell-specific surface glycoprotein CD28; CD antigen CD28

Application Instructions

Application table	Application	Dilution
	FACS	1 - 12 µg/ml
	FuncSt	Assay-dependent
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	IP	Assay-dependent
	WB	Assay-dependent
	Application Note	
		Functional studies: T cell costimulation. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

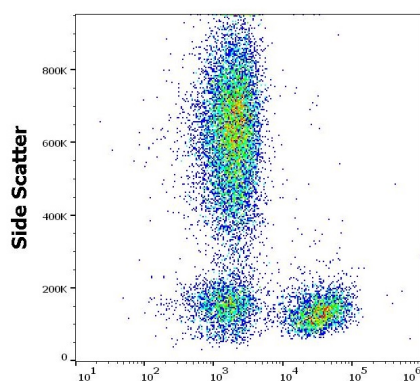
Form	Liquid
Purification	Purification with Protein A.
Purification Note	0.2 µm filter sterilized. Endotoxin level is 95% (by SDS-PAGE)

Buffer	PBS (pH 7.4)
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

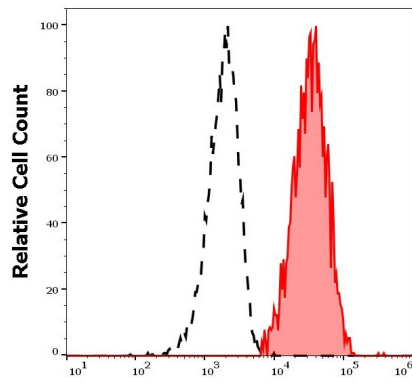
Database links	GeneID: 940 Human Swiss-port # P10747 Human
Gene Symbol	CD28
Gene Full Name	CD28 molecule
Background	CD28 is the critical T cell costimulatory receptor which provides to the cell the important second activation signal by binding CD80 and CD86 that are expressed by antigen presenting cells. Besides its costimulation role CD28 functions in preventing T cells from anergic hyporesponsive state or from undergoing premature apoptotic cell death. CD28 is also expressed on human fetal NK cells and some NK cell lines, whereas on murine NK cells the CD28 expression is much broader.
Function	Involved in T-cell activation, the induction of cell proliferation and cytokine production and promotion of T-cell survival. [UniProt]
Research Area	Developmental Biology antibody; Immune System antibody; Cytotoxic T Cell Surface Study antibody
Calculated Mw	25 kDa
PTM	CD40LG induces tyrosine phosphorylation of isoform 3.

Images



ARG65354 anti-CD28 antibody [CD28.2] (low endotoxin) FACS image

Flow Cytometry: Human peripheral blood stained with ARG65354 anti-CD28 antibody [CD28.2] (low endotoxin) at 1.6 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG65354 anti-CD28 antibody [CD28.2] (low endotoxin) FACS image

Flow Cytometry: Separation of human CD28 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed). Human peripheral whole blood stained with ARG65354 anti-CD28 antibody [CD28.2] (low endotoxin) at 1.6 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.