ARG62796
anti-CD28 antibody [37.51] (Functional Grade)

Package: 100 µg
Store at: -20°C

Summary

Product Description	Functional grade and low endotoxin Hamster Monoclonal antibody [37.51] recognizes CD28
Tested Reactivity	Ms
Tested Application	CyTOF®-candidate, FACS, FuncSt, ICC/IF, IHC-Fr, IP
Specificity	The clone 37.51 reacts with extracellular domain of mouse CD28 costimulatory receptor, a 45 kDa homodimeric protein expressed by thymocytes, mature T cells and NK cells.
Host	Hamster
Clonality	Monoclonal
Clone	37.51
Isotype	IgG
Target Name	CD28
Species	Mouse
Immunogen	Mouse T cell lymphoma EL-4 cells
Conjugation	Un-conjugated
Alternate Names	Tp44; TP44; T-cell-specific surface glycoprotein CD28; CD antigen CD28

Application Instructions

Application table

Application	Dilution
CyTOF®-candidate	Assay-dependent
FACS	6 µg/ml
FuncSt	Assay-dependent
ICC/IF	1 - 4 µg/ml
IHC-Fr	Assay-dependent
IP	1 - 2 µg / 100 - 500 µg of protein in 1 ml lysate

Application Note: Functional studies: In vitro and in vivo T cell costimulation.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

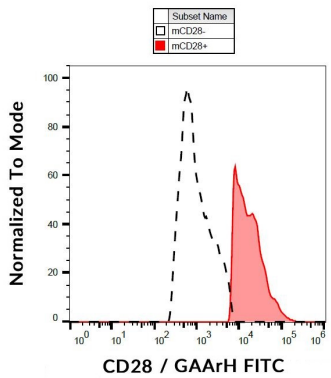
Form	Liquid
Purification	Purification with Protein G.
Purification Note	0.2 µm filter sterilized. Endotoxin level is 95% (by SDS-PAGE)

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: 12487 Mouse Swiss-port # P31041 Mouse
Gene Symbol	Cd28
Gene Full Name	CD28 antigen
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. In murine peripheral lymphoid organs and in the blood, all CD4+ and CD8+ T cells express CD28. In the thymus, CD28 expression is highest on immature CD3-, CD8+ and CD4+8+ cells, and on CD4-8- cells that express alpha/beta and gamma/delta TCR. The level of CD28 on mature CD4+ and CD8+ alpha/beta TCR+ thymocytes is two- to fourfold lower than on the immature cells.
Function	Involved in T-cell activation, the induction of cell proliferation and cytokine production and promotion of T-cell survival. [UniProt]
Highlight	Related products: CD28 antibodies; CD28 ELISA Kits; CD28 Duos / Panels; Anti-Hamster IgG secondary antibodies; Related news: CyTOF-candidate Antibodies
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



ARG62796 anti-CD28 antibody [37.51] (Functional Grade) FACS image

Flow Cytometry: Mouse peritoneal fluid cells stained with ARG62796 anti-CD28 antibody [37.51] (Functional Grade), followed by GAArH-FITC.