

DATASHEET

CD28 Mouse Monoclonal Antibody(CD28.2)

CAT. NO. AMA03767

KEY FEATURES

Target	CD28	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	WB, IF/ICC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1 kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide.	Storage	at-20°C

BACKGROUND

Receptor that plays a role in T-cell activation, proliferation, survival and the maintenance of immune homeostasis . Functions not only as an amplifier of TCR signals but delivers unique signals that control intracellular biochemical events that alter the gene expression program of T-cells . Stimulation upon engagement of its cognate ligands CD80 or CD86 increases proliferation and expression of various cytokines in particular IL2 production in both CD4(+) and CD8(+) T-cell subsets . Mechanistically, ligation induces recruitment of protein kinase C-theta/PRKCQ and GRB2 leading to NF-kappa-B activation via both PI3K/Akt-dependent and -independent pathways . In conjunction with TCR/CD3 ligation and CD40L costimulation, enhances the production of IL4 and IL10 in T-cells .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200
FC	1:500 - 1:2000

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

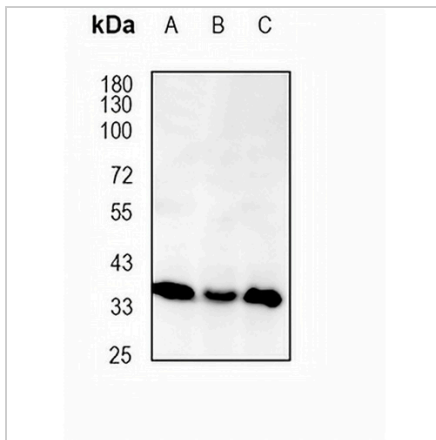
Description	Mouse monoclonal antibody to CD28
Specificity	Recognizes human CD28
Antibody Type	Primary antibody
Immunogen	Native purified human CD28
Purification	The antibody was purified by affinity chromatography.
Molecular Weight	Predicted: 25 kD; Observed: 37 kD
Form/Buffer	Mouse IgG1 kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide.
Alternative Names	T-cell-specific surface glycoprotein CD28; TP44; CD28
Gene Symbol	CD28
Entrez Gene	940(Human)
SwissProt	P10747(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET**CD28 Mouse Monoclonal Antibody(CD28.2)**

CAT. NO. AMA03767

DATA

Western blot analysis of CD28 expression in U87 (A), HuH7 (B), HuccT1 (C) whole cell lysates. (Predicted band size: 25 kD; Observed band size: 37 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.