CD28 Rabbit mAb

Catalog No.: A30090

Recombinant

Basic Information

Observed MW
14 kDa, 40-60 kDa

Calculated MW
6-26 kDa

Category
Monoclonal Antibodies

Applications
WB, IP, IF/ICC, IF-F, IF-P, IHC-P, ELISA

Cross Reactivity
Human, Mouse

Clone No.
ARC4107

Background

The protein encoded by this gene is essential for T-cell proliferation and survival, cytokine production, and T-helper type-2 development. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

WB	1:10000 - 1:25000
IP	0.4 μg - 2 μg antibody for 200 μg - 400 μg extracts of whole cells
IF/ICC	1:400 - 1:1600
IF-F	1:400 - 1:1600
IF-P	1:400 - 1:1600
IHC-P	1:1000 - 1:4000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
940

Swiss-Prot
P10747

Immunogen
This information is considered to be commercially sensitive.

Synonyms
Tp44; IMD123

Contact

400-999-6126

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Product Information

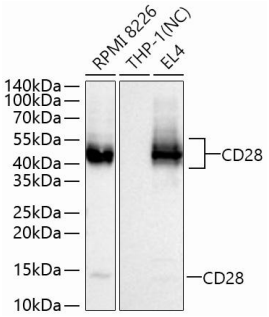
Source
Rabbit

Isotype
IgG

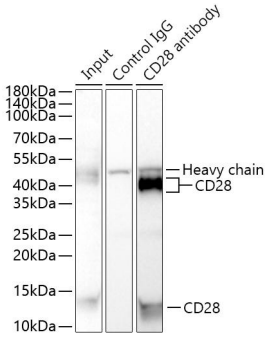
Purity
Affinity purification

Storage
Store at -20℃

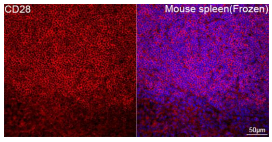
Validation Data



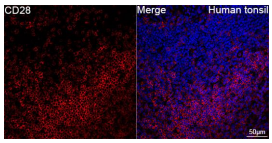
Western blot analysis of various lysates using CD28 Rabbit mAb (A30090) at 1:25000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): THP-1.
Exposure time: 45 s.



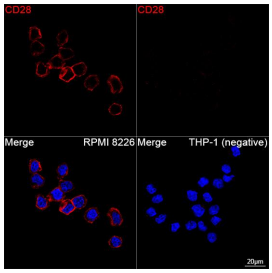
Immunoprecipitation of CD28 from 300 µg extracts of Jurkat clone A3 [A3] cells was performed using 0.4 µg of CD28 Rabbit mAb (A30090). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using CD28 Rabbit mAb (A30090) at a dilution of 1:50000.



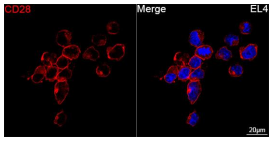
Confocal imaging of frozen sections of Mouse spleen tissue using CD28 Rabbit mAb (A30090, dilution 1:1200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



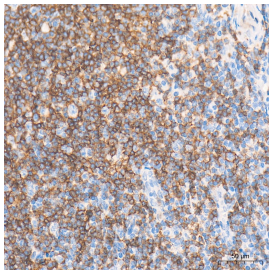
Confocal imaging of paraffin-embedded Human tonsil tissue using CD28 Rabbit mAb (A30090, dilution 1:1200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



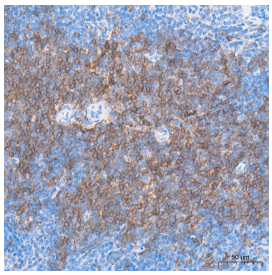
Confocal imaging of RPMI 8226 cells and THP-1 cells (negative) using CD28 Rabbit mAb (A30090, dilution 1:1200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



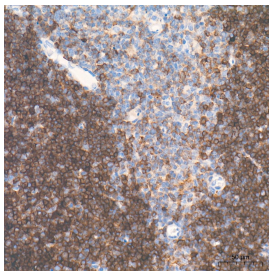
Confocal imaging of EL4 cells using CD28 Rabbit mAb (A30090, dilution 1:1200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using CD28 Rabbit mAb (A30090) at a dilution of 1:2500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using CD28 Rabbit mAb (A30090) at a dilution of 1:2500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse thymus tissue using CD28 Rabbit mAb (A30090) at a dilution of 1:2500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.