

CD28 recombinant antibody

Anti-CD28 [JJ316]

CATALOG # AAA72022	REACTIVITY Rat	APPLICATIONS Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay
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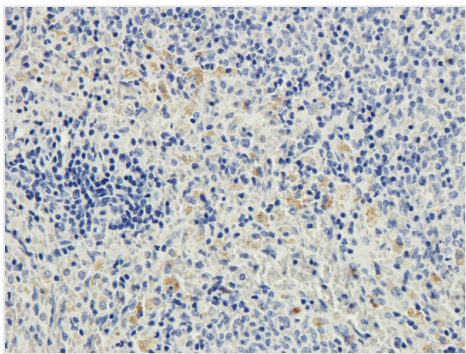
PRODUCT SYNONYMS

CD28; Monoclonal Recombinant Antibody; Anti-CD28 [JJ316]; TP44; T-cell-specific surface glycoprotein CD28; CD28 recombinant antibody

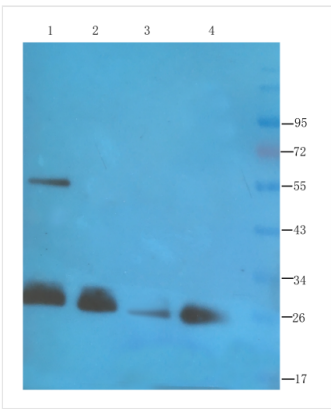
PRODUCT SPECIFICATIONS

Reactivity	Rat
Clonality	Monoclonal
Isotype	Rabbit IgG kappa
Clone Number	JJ316
Specificity	Recognizes rat CD28 and can trigger T-cell proliferation in vitro and in vivo.
Purity/Purification	Protein A Affinity Purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Sequence Length	218
Applicable Applications for CD28 recombinant antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Antibody Type	Recombinant Antibody
Antibody Species	Rabbit
Original Species Name	Mouse
Immunogen	Made by immunizing BALB/c mice with rat CD28 cDNA-transfected A20/J cells.
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Clone Note	This antibody binds rat CD28 and can convey as a co-stimulatory signal. At 100-1000-fold higher concentration than required for co-stimulation JJ316 (unlike the clone JJ319 marketed by competitors (see Tacke et al. 1997)) can induce proliferation of all T-cell subsets without TCR engagement.
Buffer Composition	PBS only with 0.02% Proclin 300.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



IHC (Immunohistochemistry)
Immunohistochemical staining of rat spleen using anti-CD28 antibody. Formalin fixed rat spleen slices were stained at 3 ug/ml.



WB (Western Blot)
Western Blot using anti-CD28 antibody. Rat thymus (lane 1), rat lymph node (lane 2), rat thyroid (lane 3) and rat spleen (lane 4) sample were resolved on a 12% SDS PAGE gel and blots probed at 3 ug/ml before being detected by a secondary antibody. The expected band size at 25 kDa was observed.

ADDITIONAL INFORMATION

Related Product Information for CD28 recombinant antibody	Recombinant monoclonal antibody to CD28. Manufactured using the recombinant platform with variable regions (i.e. specificity) from the hybridoma JJ316.
Product Categories/Family for CD28 recombinant antibody	Immunology ; Signalling ; Costimulation ; Immuno-oncology ; Immunotherapy
References	Tacke et al. CD28-mediated induction of proliferation in resting T cells in vitro and in vivo without engagement of the T cell receptor: evidence for functionally distinct forms of CD28. Eur J Immunol PMID:9022025 Original Published Journal: Eur J Immunol Publication Note: Describes the in vivo and in vitro characterisation of JJ316.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6978625
NCBI GeneID	25660
NCBI Accession #	NP_037253.1
NCBI GenBank Nucleotide #	NP_037253.1
UniProt Accession #	P31042
NCBI Official Full Name	T-cell-specific surface glycoprotein CD28
NCBI Official Synonym Full Names	Cd28 molecule
NCBI Official Symbol	Cd28
NCBI Official Synonym Symbols	CD28RNA
NCBI Protein Information	T-cell-specific surface glycoprotein CD28
UniProt Protein Name	T-cell-specific surface glycoprotein CD28
UniProt Gene Name	Cd28
UniProt Entry Name	CD28_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

