

CD27 recombinant antibody

Anti-CD27 [LG.3A10]

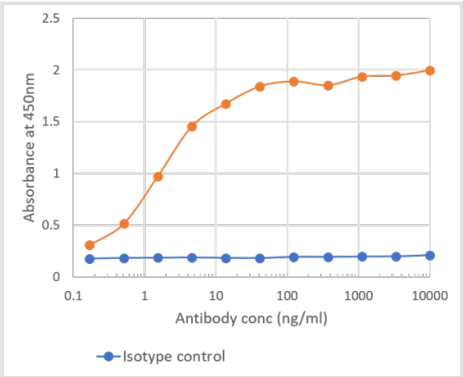
CATALOG # AAA72041	REACTIVITY Mouse	APPLICATIONS Flow Cytometry, Functional Assay, Immunofluorescence, Immunoprecipitation
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PRODUCT SYNONYMS

CD27; Monoclonal Recombinant Antibody; Anti-CD27 [LG.3A10]; TNFRS7; CD27L receptor; T-cell activation antigen CD27; Tumor necrosis factor receptor superfamily member 7; CD27 recombinant antibody

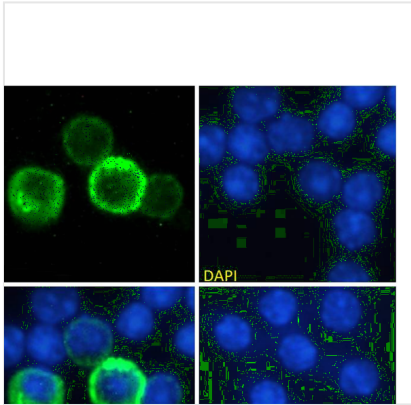
PRODUCT SPECIFICATIONS

Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG kappa
Clone Number	LG.3A10
Specificity	This antibody is specific for mouse CD27, which, as in the human system, is largely restricted to cells of the T cell lineage, and is expressed on the great majority of both alphabeta and gammadelta T lymphocytes, and thymocytes.
Purity/Purification	Protein A Affinity Purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Sequence Length	250
Applicable Applications for CD27 recombinant antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IP (Immunoprecipitation)
Antibody Type	Recombinant Antibody
Antibody Species	Rabbit
Original Species Name	Armenian Hamster
Immunogen	This antibody was produced by injecting Armenian hamsters intraperitoneally with a mixture of two murine CD27 tag-expressing Armenian hamster fibroblast clones (AR0524 and AR0530) in Freund's adjuvant
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Hamster IgG format, for improved compatibility with existing reagents, assays and techniques.
Clone Note	This antibody is specific for murine CD27, and has been used to assess the distribution of CD27 expression using IF, FC and IP analysis (Gravstein, 1995). Upon cross-linking, this antibody has been shown to induce a 4-fold increase in T cell proliferation in response to suboptimal stimulation with concanavalin A (Gravstein, 1995), indicating that this antibody is able to mimic ligand binding.
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.



Application Data

Binding curve of anti-CD27 antibody LG.3A10 (AAA72041) to mouse CD27-Fc fusion protein ELISA Plate coated with mouse CD27-Fc fusion protein (Pr00160-1.9) at a concentration of 5 ug/ml. A 3-fold serial dilution from 10,000 to 0.1 ng/ml was performed using AAA72041. For detection, a 1:4000 dilution of HRP-labelled goat anti-rabbit antibody (Bio-Rad) was used.



IF (Immunofluorescence)

Immunofluorescence staining of fixed mouse splenocytes with anti-CD27 antibody LG.3A10. Immunofluorescence analysis of paraformaldehyde fixed mouse (Mus musculus) splenocytes on Shi-fix coverslips, permeabilized with 0.15% Triton stained with the chimeric rabbit version of LG.3A10 (AAA72041) at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing membrane and some cytoplasmic staining in a subset of cells. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom AAA72041, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for CD27 recombinant antibody	Recombinant monoclonal antibody to CD27. Manufactured using the recombinant platform with variable regions (i.e. specificity) from the hybridoma LG.3A10.
Product Categories/Family for CD27 recombinant antibody	Immunology; Adaptive Immunity; CD Markers
References	Gravstein et al. Novel mAbs reveal potent co-stimulatory activity of murine CD27 International immunology, April 1995, Vol.7(4), pp.551-7 PMID:7547681 Original Published Journal: International immunology, April 1995, Vol.7(4), pp.551-7 Original Published Journal: International immunology, April 1995, Vol.7(4), pp.551-7 Publication Note: Describes the original use of this antibody to elucidate the distribution and co-stimulatory activity of CD27.

NCBI AND UNIPROT INFORMATION

NCBI GI #	729080
NCBI GeneID	21940
UniProt Accession #	P41272
NCBI Official Full Name	CD27 antigen
NCBI Official Synonym Full Names	CD27 antigen
NCBI Official Symbol	Cd27
NCBI Official Synonym Symbols	S152; Tp55; Tnfrsf7
NCBI Protein Information	CD27 antigen
UniProt Protein Name	CD27 antigen
UniProt Gene Name	Cd27
UniProt Synonym Gene Names	Tnfrsf7
UniProt Entry Name	CD27_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd27-recombinant-antibody-clone-lg-3a10-flow-cytometry-immunofluorescence-immunoprecipitation-elisa/72041>