

Rat CD28 Monoclonal Antibody | anti-CD28 antibody

RAT ANTI HUMAN CD28

CATALOG # AAA49549	HOST Rat	APPLICATIONS Flow Cytometry, Functional Assay, Immunohistochemistry
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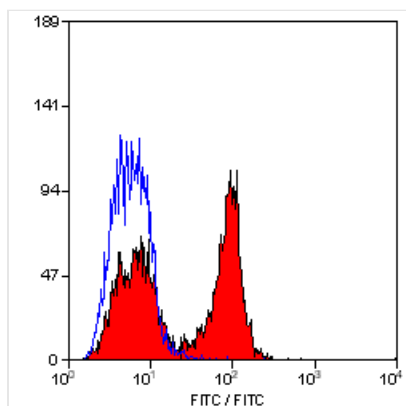
PRODUCT SYNONYMS

CD28; Monoclonal Antibody; RAT ANTI HUMAN CD28; anti-CD28 antibody

PRODUCT SPECIFICATIONS

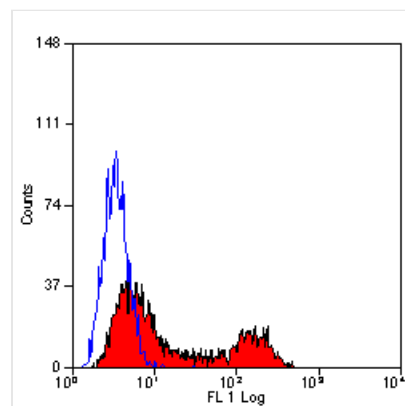
Host	Rat
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	YTH913.12
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	234
Applicable Applications for anti-CD28 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Perservative Stabilisers	0.09% Sodium Azide Preparation
Buffer Solution	Phosphate buffered saline
Target Species	Human
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.

IMAGES



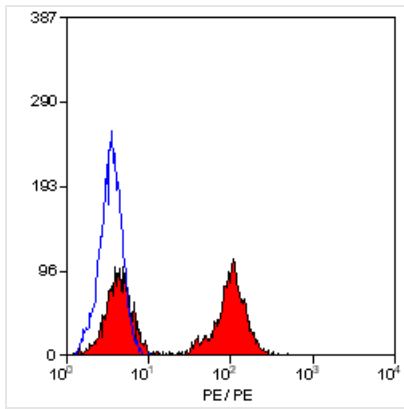
Application Data

Staining of human peripheral blood lymphocytes with Rat anti Human CD28



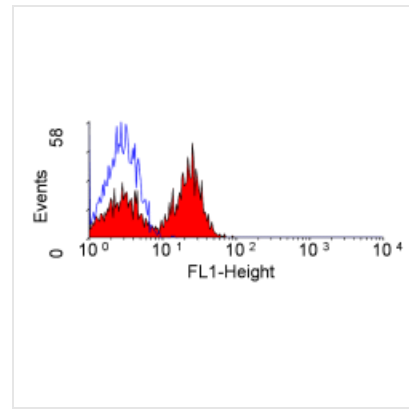
Application Data

Staining of human peripheral blood lymphocytes with Rat anti Human CD28: Alexa Fluor 647



Application Data

Staining of human peripheral blood lymphocytes with Rat anti Human CD28:RPE



Application Data

Staining of human peripheral blood lymphocytes with Rat anti Human CD28: Biotin

ADDITIONAL INFORMATION

Related Product Information for anti-CD28 antibody

Rat anti Human CD28 antibody, clone YTH913.12 recognizes human CD28, a ~44kDa single pass type 1 trans-membrane protein expressed as a homodimer on a major subset of human T-cells (Thompson et al. 1989), responsible for activation of these cells via interaction with the TCR. CD28 is involved in the tuning of the T-cell for activation via TCR, lowering the threshold for activation from around 8000 triggered TCRs to approximately 1500 (Viola et al.1996). CD28 along with CD152, also known as CTLA-4 acts as a co-receptor for the co-stimulatory molecules CD80 and CD86 (Azuma et al. 1993). CD28 offers a positive stimulatory role on ligation of CD80 and CD86 while CTLA-4 offers a negative feedback signal preventing CD28 mediated T-cell activation of CD86 (Krummel et al. 1995) Rat anti human CD28, clone YTH913.12 has been reported to recognize an epitope of CD28 expressed by NK cells, which is not recognized by other anti human CD28 clones such as 9.3 and CD28.2 (Galea-Lauri et al 1999.) Other reports however have failed to demonstrate CD28 staining on peripheral blood derived KK cells using clone YTH913.12 (Wilson et al. 1999).

NCBI AND UNIPROT INFORMATION

NCBI GI #	340545508
NCBI GeneID	940
NCBI Accession #	NP_001230006.1
NCBI GenBank Nucleotide #	NM_001243077.1
UniProt Accession #	P10747; Q13964; Q52M23; Q70WG0; Q8NI54; Q8NI55; Q8NI56; Q8WXJ2; Q9BYV0; A8KAC1
Molecular Weight	26,186 Da
NCBI Official Full Name	T-cell-specific surface glycoprotein CD28 isoform 2
NCBI Official Synonym Full Names	CD28 molecule
NCBI Official Symbol	CD28
NCBI Official Synonym Symbols	Tp44
NCBI Protein Information	T-cell-specific surface glycoprotein CD28; CD28 antigen
UniProt Protein Name	T-cell-specific surface glycoprotein CD28
UniProt Gene Name	CD28
UniProt Entry Name	CD28_HUMAN

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.