OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TP721367

CD19 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	PE Conjugated Human CD19 Protein (C-Fc)
Species:	Human
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	Glu21-Lys291
Tag:	C-Fc
Predicted MW:	The protein has a predicted molecular weight of 56kDa and migrates at approximately 70-80kDa on SDS-PAGE with DTT-reduced condition before PE conjugation.
Concentration:	25μg size is bottled at 0.1mg/mL concentration. 100 μg size is bottled at lot specific concentration.
Purity:	>90%
Conjugation:	PE
Buffer:	1xPBS buffer, pH7.4, 0.09% NaN3 with a carrier protein
Bioactivity:	Positive The definition of the active protein (purified and biotinylated) is defined as the protein that can bind to its biological receptor/ligand. For conjugated protein, it is defined with its function to bind to the ScFv of the active CAR-transfected cells in flow cytometry test.
Preparation:	Affinity Protein A
Applications:	FACS
Storage:	An unopened vial can be stored at 4°C for 2 weeks or at -20°C and below for six months. This stock solution should be aliquoted and stored at ≤ -70°C to minimize the freeze/thaw cycles.
Stability:	6 Months
RefSeq:	P15391
Locus ID:	930
UniProt ID:	P15391

View online »

Summary: CD19 is a single-pass type I membrane protein containing 2 Ig-like C2-type (immunoglobulin-like) domains. CD19 is expressed on follicular dendritic cells and B cells. In fact, it is present on B cells from earliest recognizable B-lineage cells during development to B-cell blasts but is lost on maturation to plasma cells. CD19 primarily acts as a B cell co-receptor in conjunction with CD21 and CD81. Upon activation, the cytoplasmic tail of CD19 becomes phosphorylated, which leads to binding by Src-family kinases and recruitment of PI-3 kinase. CD19 Assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. Defects in CD19 are the cause of immunodeficiency common variable type 3 (CVID3) which is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen.