Data Sheet (Cat.No.TMPY-07080)

TargetMol

CD19 Protein, Human, Recombinant (His), FITC-Labeled

General Information

Synonyms:	CVID3;B4
Protein Construction:	A DNA sequence encoding the Human CD19 (NP_001171569.1) (Met1-Lys291) was expressed with a polyhistidine tag at the C-terminus, are conjugated with FITC under optimum conditions.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P15391-1
Molecular Weight:	31.56 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as powder PBS 0.5% BSA, 0.03% Proclin 300. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Stability & Storage:

Store at 4℃ and protect it from prolonged exposure to light for up to 6 months from date of receipt. DO NOT FREEZE!

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. Cluster of differentiation 19 (CD19) is a member of CD system. CD19 is a cell surface molecule that assembles with the antigen receptor of B-cells. This results in a descent in the threshold for antigen receptor-dependent stimulation. A simplified view holds that the ability of B-cells to respond to the various antigens in a specific and sensitive manner is achieved in the presence of low-affinity antigen receptors. CD19 primarily acts as a B-cell co-receptor in conjunction with CD21 and CD81. The formation of the receptor complex is induced by antigen and CD19, induced by exogenous antigen, has been found cytoplasmic tail phosphorylated

and bind to sIg.Cancer ImmunotherapyImmune CheckpointImmunotherapyTargeted Therapy

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