

Active Recombinant Human CD19 Homodimer Protein, His&Avi tagged

Cat. No. CD19-21H Lot. No. (See product label)

SPECIFICATION

Product Overview	CD19 protein dimer contains a CD19 extracellular domain (UniProt# P15391) fused with a proprietary cis-dimer motif followed by a tandem His-Avi was expressed in HEK293T.
Species	Human
Source	HEK293T
ProteinLength	20-291 aa
Description	<p>Human Cluster of Differentiation 19 (CD19) is a Type I transmembrane glycoprotein in the immunoglobulin superfamily. CD19 is also known as B-Lymphocyte Surface Antigen B4, CVID3, B-lymphocyte antigen CD19, and T-Cell Surface Antigen Leu-12. CD19 is expressed on B cells throughout B cell development, but lost in plasma cells, and is also expressed on follicular dendritic cells. CD19 contains two extracellular C2-set Immunoglobulin-like (Ig-like) domains and a cytoplasmic tail that is highly conserved among mammalian species. CD19 can form multimolecular complexes with CD21 and CD81, but forming these complexes is not required for CD19 signal transduction. Mutations on CD19 are associated with severe immunodeficiency syndromes. CD19 is highly expressed on B cell cancers such as B cell lymphomas, acute lymphoblastic leukemia, and chronic lymphocytic leukemia. CD19 has become an attractive therapeutic target for leukemia immunotherapies.</p>

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Molecular Mass	80 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for CD19-specific antibody binding assays. Suggested Applications: SPR & BLI for CD19-specific antibody binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Storage Buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene Name	CD19 CD19 molecule [Homo sapiens (human)]
Official Symbol	CD19
Synonyms	CD19; CD19 molecule; CD19 antigen; B-lymphocyte antigen CD19; differentiation antigen CD19; T-cell surface antigen Leu-12; B-lymphocyte surface antigen B4; B4; CVID3; MGC12802;
Gene ID	930
mRNA Refseq	NM_001178098
Protein Refseq	NP_001171569

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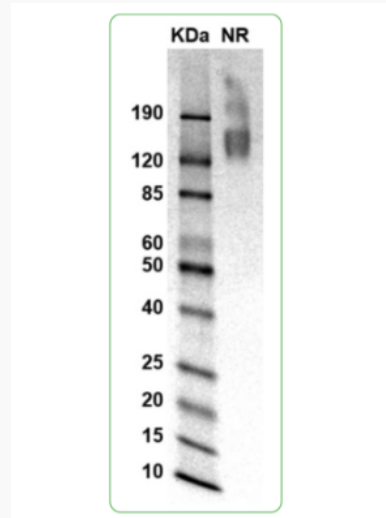
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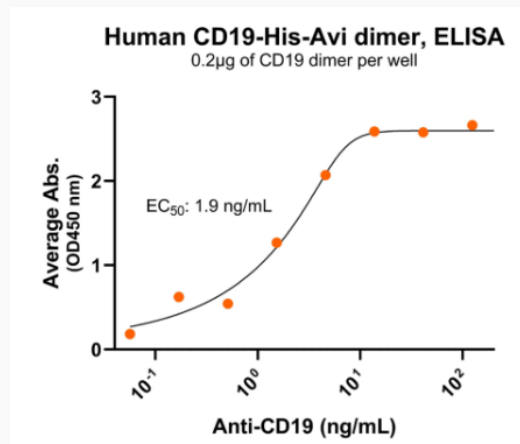
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SDS-PAGE



MW: Molecular Weight marker reduced condition NR: CD19 dimer under non-reduced condition

Bioactivity-Antibody Binding




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Immobilized human CD19-His-Avi protein dimer at 2 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) can bind anti-human CD19 monoclonal antibody with half maximal effective concentration (EC50) range of 0.9-3.7 ng/mL (QC tested).

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