

## Active Recombinant Human CD19 Homodimer Protein, His tagged

Cat. No. CD19-20H    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 His tag at the C-terminus was expressed in HEK293T.

#### Species

Human

#### Source

HEK293T

#### ProteinLength

20-291 aa

#### Description

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.

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|                       |                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 76 kDa                                                                                                                                              |
| <b>Purity</b>         | Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition                                                                  |
| <b>Application</b>    | Verified Applications: ELISA for 2Ig-B7H3-specific antibody binding assay. Suggested Applications: ELISA for CD19-specific antibody binding assays. |
| <b>Storage</b>        | Store at -80 centigrade.                                                                                                                            |
| <b>Storage Buffer</b> | 0.22µm filtered PBS, pH 7.4                                                                                                                         |
| <b>Shipping</b>       | Frozen Dry Ice                                                                                                                                      |

## GENE INFORMATION

|                        |                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CD19 CD19 molecule [ Homo sapiens (human) ]                                                                                                                                      |
| <b>Official Symbol</b> | CD19                                                                                                                                                                             |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 930                                                                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_001178098                                                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_001171569                                                                                                                                                                     |
| <b>MIM</b>             | 107265                                                                                                                                                                           |

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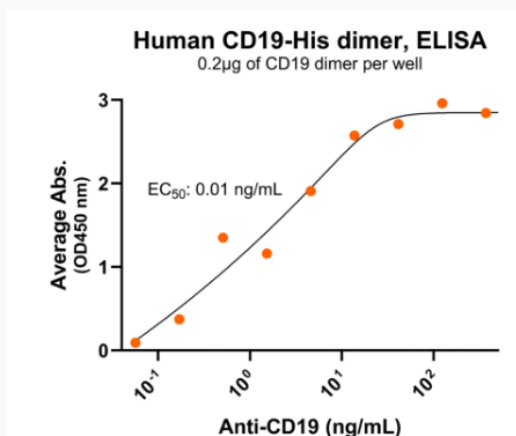
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UniProt ID

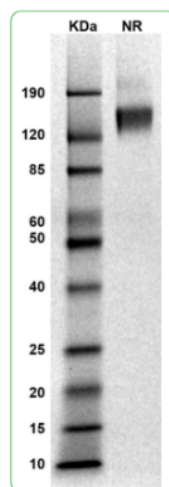
P15391

### Bioactivity-Antibody Binding



Immobilized human CD19-His protein dimer at 2 µg/mL (100 µL/well) can bind anti-human CD19 monoclonal antibody with half maximal effective concentration (EC<sub>50</sub>) range of 0.005-0.02 ng/mL (QC tested).

### SDS-PAGE



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

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