

Active Recombinant Mouse CD19 Protein, His-tagged

Cat. No. CD19-59M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CD19 protein dimer contains a CD19 extracellular domain (UniProt# P25918) fused with a dimer motif followed by a His tag at the C-terminus.
Species	Mouse
Source	HEK293T
ProteinLength	19-287 aa
Description	Mouse 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.
Molecular Mass	75 kDa
Homodimer/Heterodimer	Homodimer

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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	At -80 centigrade
Storage Buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene ID	12478
Gene Name	Cd19 CD19 antigen [Mus musculus (house mouse)]
Official Symbol	12478
Synonyms	CD19; CD19 antigen; B-lymphocyte antigen CD19; differentiation antigen CD19; AW495831;
mRNA Refseq	NM_009844
Official Symbol 2	Cd19
Gene ID 2	12478
Gene Name 2	Cd19 CD19 antigen [Mus musculus (house mouse)]

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mRNA Refseq 2	NM_009844
Protein Refseq 2	NP_033974
UniProt ID 2	P25918
Bioactivity-Antibody Binding	Immobilized mouse CD19-His dimer protein at 2 µg/mL (100 µL/well) can bind anti-mouse CD19 monoclonal antibody with half maximal effective concentration (EC50) range of 1-4 ng/mL (QC tested).
SDS-PAGE	MW: Molecular Weight marker reduced condition CD19 dimer under non-reduced condition

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