Recombinant Human CD82 Protein, C-His-tagged

Cat. No. CD82-146H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD82 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	CD82 (KAI1) belongs to the tetraspanin family, which is characterized by four transmembrane domains, one short extracellular domain (ECL1), and one long extracellular domain (ECL2). CD82 does not have enzymatic activity and appears to function by regulating the trafficking of other proteins and organization of the cell membrane. CD82 was originally described as a costimulator for T cells that directly associates with CD4 and CD8, and was subsequently identified during a screen as a metastasis suppressor in prostate cancer. CD82 has since been found to act as a metastasis suppressor in a variety of cancers, and its downregulation is associated with poor prognosis in research studies. CD82 suppresses metastasis through multiple mechanisms including inhibition of cell motility and invasion by modulating c-Met and the urokinase plasminogen activator surface receptor (uPAR), as well as promotion of homotypic cell-cell adhesion by stabilizing interactions between E-cadherin and β-catenin.
Molecular Mass	~13 kDa
AA Sequence	GKLKQEMGGIVTELIRDYNSSREDSLQDAWDYVQAQVKCCGWVSFYNWTDNAELM NRPEVTYPCSCEVKGEEDNSLSVRKGFCEAPGNRTQSGNHPEDWPVYQEGCMEK

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	VQAWLQENL
Purity	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
Notes	For research use only, not for use in diagnostic procedure.
Storage	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
Concentration	≥0.5 mg/mL
Storage Buffer	PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name	CD82 CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal [Homo sapiens (human)]
Official Symbol	CD82
Synonyms	CD82; CD82 antigen (R2 leukocyte antigen, antigen detected; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal; SAR2;
Gene ID	3732
mRNA Refseq	NM_002231
Protein Refseq	NP_002222
MIM	600623

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UniProt ID	P27701
SDS-PAGE	

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