10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Human CellExp CD55/DAF, human recombinant protein

CD55, DAF, CR, CROM, TC
Catalog # PBV11053r

Specification

Human CellExp CD55/DAF, human recombinant protein - Product info

Primary Accession	P08174
Calculated MW	**This protein is fused with 6×His tag at the C-terminus, has a calculated MW of 35.8 kDa. The predicted N-terminus is Asp 35 . DTT-reduced Protein migrates as 50-65 kDa due to glycosylation. KDa**

Human CellExp CD55/DAF, human recombinant protein - Additional Info

Gene ID	**1604**
Gene Symbol	**CD55**
Other Names	
CD55, DAF, CR, CROM, TC	
Gene Source	**Human**
Source	**HEK293 cells**
Assay&Purity	**SDS-PAGE; ≥95%**
Assay2&Purity2	**N/A;**
Recombinant	**Yes**
Results	**Measured by its binding ability in a functional ELISA. When rhCD55 is coated at 1 μg/ml (100 μl/well), the concentration of rhCD97 that produces 50% of the optimal binding response is found to be approximately 0.15-2.0 μg/ml.**

Target/Specificity
CD55/DAF

Application Notes
Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 μg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized

Storage
-20°C; Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

Human CellExp CD55/DAF, human recombinant protein - Protocols

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Human CellExp CD55/DAF, human recombinant protein - Images

Human CellExp CD55/DAF, human recombinant protein - Background

CD55, also known as DAF or decay accelerating factor, is a member of the RCA (regulators of complement activation) family characterized by four to 30 SCRs (short consensus repeats) in their plasma-exposed regions. CD55 /DAF is a 70 kDa membrane protein that regulates the complement system on the cell surface. It prevents the assembly of the C3bBb complex (the C3-convertase of the alternative pathway) or accelerates the disassembly of preformed convertase, thus blocking the formation of the membrane attack complex. This glycoprotein is broadly distributed among hematopoietic and non-hematopoietic cells. It is a determinant for the Cromer blood group system. CD55 is known to bind CD97 via the first SCR. It also binds physiologically generated C3 convertases with its second and third SCRs. Binding results in an accelerated “decay”, or dissociation of active C3 convertases, thus blocking the development of C’ attack complexes on non-foreign cells. Finally, viruses and bacteria are also known to utilize multiple SCR sites for infection.

Human CellExp CD55/DAF, human recombinant protein - References

Caras I.W.,et al.Nature 325:545-549(1987).
Osuka F.,et al.Genomics 88:316-322(2006).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.