

Recombinant Mouse CD96 protein (His tag) ab215636

Description

Product name	Recombinant Mouse CD96 protein (His tag)	
Purity	> 95 % SDS-PAGE. Lyophilized from a 0.2 µm filtered solution.	
Endotoxin level	< 1.000 Eu/µg	
Expression system	Mammalian	
Accession	<u>Q3U0X8</u>	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Mouse	
Sequence	VWEELFNVGDDVYALPGSDINLTCQTKEKNFLVQMQWSK VTDKNDMIALY HPQYGLYCGQEHCESQVAATETEKGVTNWTLYLRNISSA LGGKYECIFT LYPEGIKTTVYNLMEPYTQDEHNYTIEIETNRTLEIPCFQNTS SEIPPR FTFSWLVEKDGVEEVLFTHHHVNNSTSFKGRIRLGGDYR LHLSPVQIQD DGRTFSCHLTVNPLKAWKMSTTVKVFAPKPEILMTVENSTM DVLGERVFCT LLKNVFPKANITWFDGRFLQGNEEGYITNEEKNCSSGFW ELKSVLTRM HSGPSQSNMATAWCMALSPGPRNKMWNTSSQPITVSFD SVIAPTKHLPTV TGSTLGTQPFSDAGVSPTGYLATPSVTIVDENGLTPDATP QTSNSSMTTK DGNYLEASSGTDANKSSRAAASSKSGSWPFPFTSPPEW HSLPGTSTGPE PDSPVSWIPSEVHTSAPLDASLAPHDTIISTTTEFPNVLTTA NGTTKIDH GPITSIVNQPSDGMHHHHHH	
Predicted molecular weight	58 kDa including tags	
Amino acids	22 to 536	
Tags	His tag C-Terminus	

Specifications

Our **Abpromise guarantee** covers the use of **ab215636** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C long term. pH: 7.40 Constituent: 99% PBS
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Reconstitution	Reconstitute with ddH ₂ O to a concentration no less than 100 µg/mL. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
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General Info

Function	May be involved in adhesive interactions of activated T and NK cells during the late phase of the immune response. Promotes NK cell-target adhesion by interacting with PVR present on target cells. May function at a time after T and NK cells have penetrated the endothelium using integrins and selectins, when they are actively engaging diseased cells and moving within areas of inflammation.
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Tissue specificity	Expressed on normal T-cell lines and clones, and some transformed T-cells, but no other cultured cell lines tested. It is expressed at very low levels on activated B-cells.
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Involvement in disease	Defects in CD96 are a cause of C syndrome (CSYN) [MIM:211750]; also called Opitz trigonocephaly syndrome. This syndrome is characterized by trigonocephaly and associated anomalies, such as unusual facies, wide alveolar ridges, multiple buccal frenula, limb defects, visceral anomalies, redundant skin, psychomotor retardation and hypotonia. Note=A chromosomal aberration involving CD96 has been found in a patient with C syndrome. Translocation t(3;18)(q13.13;q12.1). CD96 gene was located at the 3q13.13 breakpoint. Precise structural analysis around the breakpoint showed that the gene was disrupted by the translocation in exon 5, probably leading to premature termination or loss of expression of CD96 protein. No gene was detected at the chromosome 18 breakpoint. Defects in CD96 are a cause of C-like syndrome (CLSYN) [MIM:605039]; also called Opitz trigonocephaly-like syndrome. The C-like syndrome seems to be a severe form of the C syndrome. It is controversial whether there is (1) a gradient of spectrum in the C syndrome, from the mild form (C syndrome) to the severe form (C-like syndrome), or (2) genetic heterogeneity among the patients with the C syndrome.
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Sequence similarities	Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 2 Ig-like V-type (immunoglobulin-like) domains.
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Developmental stage	Expressed at low levels on peripheral T-cells and is strongly up-regulated after activation, peaking 6 to 9 days after the activating stimulus.
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Cellular localization	Membrane.
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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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