

Product datasheet

Recombinant mouse ICAM1 protein (Fc Chimera Active) ab214983

Description

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| Product name | Recombinant mouse ICAM1 protein (Fc Chimera Active) |
| Biological activity | Shows the biological function of the CD54 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain. |
| Purity | >= 98 % SDS-PAGE. |
| Endotoxin level | < 0.060 Eu/μg |
| Expression system | CHO cells |
| Accession | Q922B3 |
| Protein length | Protein fragment |
| Animal free | No |
| Nature | Recombinant |
| Species | Mouse |

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| Sequence | <p>QVSIHPREAFLPQGGSVQVNCSSSCKEDLSLGLLETQWLK DELESGPNWKL FELSEIGEDSSPLCFENCQTVQSSASATITAYSFPERVELR PLPAWQQVG KDLTLRCHVDGGAPRTQLSAVLLRGEEILSRQPVGHPK DPKEITFTVLA SRGDHGANFSCRTELDLRPQGLALFSNVSEARRLRTFDL PATIPKLDTPD LLEVGTQQKLFCSLEGLFPASEARIMLELGGQMPTQESTN SSDSVSATAL VEVTEEFDRTLPLRCVLELADQILETQRRTLTVYNFSAPVLT LSQLEVSEG SQVTVKCEAHSGSKVLLSGVEPGPPTPQVQFTLNASSE DHKRRFFCSAA LEVAGKFLSKNQTELELHVLYGPRLDETDC LGNWTWQEGS QQTLKCAWGN PSPKMTERRKADGALLPIGVVKS VKQEMNGTYVCHAFSS HGNVTRNVYLT VLYHSQNN</p> |
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Amino acids 28 to 485

Additional sequence information Extracellular domain fused to the N-terminus of the Fc region of a mutant mouse IgG2a.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab214983** in the following tested applications.

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

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| Applications | SDS-PAGE Functional Studies |
| Form | Lyophilized |
| Additional notes | Non-lytic: Acts as a long lasting fusion protein which only binds to the receptor. Mutations to the complement (C1q) and FcγR I binding sites of the IgGs Fc fragment render the fusion proteins incapable of antibody directed cytotoxicity (ADCC) and complement directed cytotoxicity (CDC). |

Preparation and Storage

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| Stability and Storage | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term. Avoid freeze / thaw cycle. Constituent: 100% PBS This product is an active protein and may elicit a biological response in vivo, handle with caution. |
| Reconstitution | Reconstitute at 100 µg/mL in sterile PBS. Working aliquots are stable for up to 3 months when stored at -20°C. |

General Info

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| Function | ICAM proteins are ligands for the leukocyte adhesion protein LFA-1 (integrin alpha-L/beta-2). During leukocyte trans-endothelial migration, ICAM1 engagement promotes the assembly of endothelial apical cups through ARHGEF26/SGEF and RHO G activation. In case of rhinovirus infection acts as a cellular receptor for the virus. |
| Sequence similarities | Belongs to the immunoglobulin superfamily. ICAM family. Contains 5 Ig-like C2-type (immunoglobulin-like) domains. |
| Post-translational modifications | Monoubiquitinated, which is promoted by MARCH9 and leads to endocytosis. |
| Cellular localization | Membrane. |

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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