Datasheet for ABIN1684681

# CEACAM1 Protein (C-Term, Extracellular Domain)

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## Overview

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| Quantity: | 100 µg |
| Target: | CEACAM1 |
| Protein Characteristics: | C-Term, Extracellular Domain |
| Origin: | Mouse |
| Source: | HEK-293T Cells |
| Protein Type: | Recombinant |

## Product Details

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| Specificity: | Optimized DNA sequence encoding extracellular domain of mouse CD66a including a C-terminal 6His tag was expressed in HEK293 cells. |
| Characteristics: | Recombinant mouse CD66a (CEACAM-1) is a monomer protein consisting of 405 amino acid residue subunits, due to glycosylation migrates as an approximately 65-85 kDa protein on SDS-PAGE. |
| Purity: | > 95 %, as determined by SDS-PAGE and HPLC |
| Sterility: | 0.2 µm filtered |
| Endotoxin Level: | Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/µg(1EU/µg). |

## Target Details

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| Target: | CEACAM1 |
| Alternative Name: | CD66 (CEACAM1 Products) |

## Target Details

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| Background: | Stem Cell Factor is a stromal cell-derived cytokine synthesized by fibroblasts and other cell types. SCF promotes proliferation and earlydifferentiation of cells at the level of multipotential stem cells. It has been suggested thatSCF is essential for optimal production of various hematopoietic lineages, mainly becauseof its ability to prevent apoptosis when it co-stimulates with other cytokines. The receptor for SCF, designated SCFR (CD117), is the oncogene designated as KIT. The biological activities of SCF are synergised considerably by colony stimulating factors GM-CSF and G-CSF, and also by IL7, Epo and some other growth and differentiation factors. In combination with IL7 SCF stimulates the proliferation of pre-B-cells. SCF is also a potent chemoattractant for cells (see also: Chemotaxis), for example, mast cells, expressing the kit receptor. One response to SCF in these cells is a characteristic rearrangement of the actin filaments of the cytoskeleton. |
| UniProt: | P31809 |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Buffer: | PBS solution, pH7.2 |
| Handling Advice: | Avoid repeated freeze/thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | The lyophilized protein is stable for at least years from date of receipt at -20 °C. Upon reconstitution, this cytokine can be stored in working aliquots at - 8 °C for one month, or at -20 °C for six months, with a carrier protein without detectable loss of activity. |
| Expiry Date: | 12-24 months |