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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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CD66b, Avi-His-Tag Recombinant

Catalog: 102028
Lot: 240916-2

Product Information

Description:	Recombinant human CD66b, also known as CEACAM8 (Carcinoembryonic antigen-related cell adhesion molecule 8), encompassing amino acids 35-320. This construct contains a C-terminal Avi-Tag™ followed by a His-tag (6xHis). This protein was affinity purified.
Background:	CD66b (cluster of differentiation 66b), also known as CEACAM8 (Carcinoembryonic antigen-related cell adhesion molecule 8), belongs to the CEA family of proteins and the immunoglobulin superfamily, and is expressed in neutrophils, eosinophils, granulocytes, and monocytes. It was initially described as a granulocyte marker, but recent studies have shown that it is involved in cell adhesion and is a pro-inflammatory mediator. It is highly glycosylated and binds to GPI (glycosylphosphatidylinositol). $CD66b^+$ monocytes can be found in several cancer types and represent a population of cells that do not seem to be involved in immunosuppression but display high phagocytic activity and co-stimulate T cell proliferation and IFN-γ secretion. $CD66b^+$ neutrophils are also present in the tumor microenvironment (TME) and are believed to link to a poor prognosis. Anti-CD66b antibodies have been used in the case of ADCs (antibody drug conjugate).
Species:	Human
Construct:	CEACAM8 (35-320-Avi-His)
Concentration:	1.95 mg/ml
Expression System:	HEK293
Purity:	≥90%
Format:	Aqueous buffer solution.
Formulated In:	8 mM phosphate, 110 mM NaCl, 2.2 mM KCl, pH 7.4, and 20% glycerol
MW:	35 kDa + glycans
Glycosylation:	This protein runs at a higher MW by SDS-PAGE due to glycosylation.
Genbank Accession:	NM_001816.4
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	The protein was validated by ELISA for binding to CEACAM1. Different amounts of CD66b, Avi-His-Tag Recombinant (#102028) were used to coat a 96-well plate overnight at 4°C (50 µl/well at a concentration of 2 µg/ml in PBS). The plate was washed 3 times with PBST and blocked with 100 µl/well of Blocking Buffer 7 for 90 min at Room Temperature (RT). After removing the blocking buffer, 50 ng of diluted CEACAM, Avi-His-Tag, Biotin Labeled Recombinant (#70201) was added for 60 minutes at RT. The plate was washed 3 times, blocked, and incubated with Streptavidin-HRP, followed by washing, and incubation with HRP luminescence substrate. Chemiluminescence is proportional to CEACAM1 binding to CEACAM8.
Applications:	Useful for binding studies.

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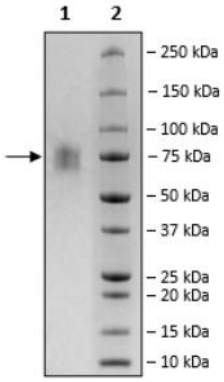
Quality Control Data

4-20% SDS-PAGE Coomassie Staining



CD66b Binding to CEACAM1