

DESCRIPTION

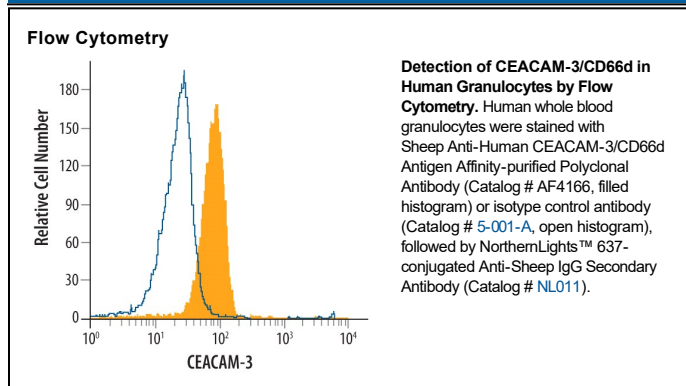
Species Reactivity	Human
Specificity	Detects human CEACAM-3/CD66d in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human (rh) CEACAM-1, rhCEACAM-5, and rhCEACAM-6 is observed and less than 5% cross-reactivity with rhCEACAM-4, rhCEACAM-7, and rhCEACAM-8 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CEACAM-3/CD66d isoform 1 Lys35-Gly155 Accession # P40198
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human CEACAM-3/CD66d
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CEACAM-3 (carcinoembryonic antigen-related cell adhesion molecule 3; also CD66d and CGM1) is a 31-34 kDa member of the CEACAM subfamily of the CEA family of proteins. It is expressed by neutrophils and serves as a microbial receptor for a wide range of microorganisms. Mature human CEACAM-3 is a 218 amino acid (aa) type I transmembrane glycoprotein. Its extracellular domain (aa 35-155) shows one V-type Ig-like domain (aa 35-142). There are two alternate splice forms. One shows a 40 aa substitution for the C-terminal 116 amino acids (aa 137-252), while a second shows a 31 aa substitution for the C-terminal 71 amino acids. No definitive rodent CEACAM-3 has been reported.