

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CEACAM-3/CD66d in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human CEACAM-1, -4, -5, or -6 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 417009
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CEACAM-3/CD66d isoform 1 Lys35-Gly155 Accession # P40198
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Carcinoembryonic Antigen-related Cell Adhesion Molecule 3, (CEACAM-3) also known as CD66d and CGM1, is a 35 kDa transmembrane glycoprotein in the CEACAM family of the immunoglobulin superfamily. The extracellular region consists of one Ig-like V-type domain, and the cytoplasmic tail contains one ITAM. CEACAM-3 is upregulated on activated neutrophils and mediates their adhesion to vascular endothelial cells. CEACAM-3 binds the Opa opacity proteins on some Gram negative bacteria, leading to bacterial uptake and neutrophil death. Alternate splicing generates an isoform with a substituted cytoplasmic tail and a potentially secreted isoform that contains a highly charged and Ser/Thr-rich sequence in place of the transmembrane and cytoplasmic regions. Orthologs of human CEACAM-3 have not been identified in other species.

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