

CEACAM1 Recombinant Rabbit Monoclonal Antibody (103)

Product Details

Size	100 µL
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	103
Conjugate	Unconjugated
Immunogen	Recombinant Human CEACAM1/CD66a protein (Met1-Gly428)
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	no preservative
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2785064

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	-
Immunocytochemistry (ICC/IF)	1:20-1:100	-
Flow Cytometry (Flow)	1:25-1:100	-
Functional Assay (FN)	-	1 Publication

Product Specific Information

This product is preservative free. It is recommended to add sodium azide to avoid contamination (final concentration 0.05%-0.1%).

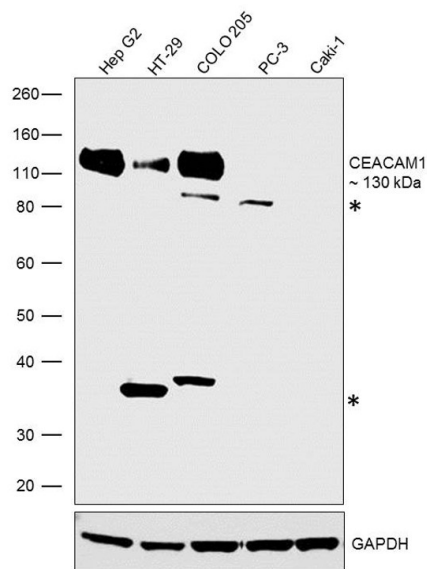
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

This antibody has specificity for Human CEACAM1/CD66a.

Product Images For CEACAM1 Recombinant Rabbit Monoclonal Antibody (103)

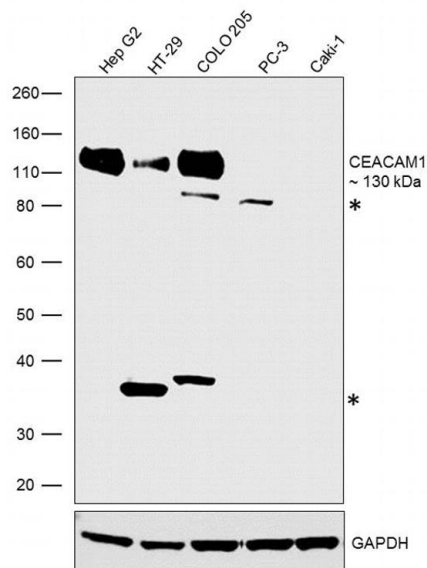
CEACAM1 Antibody (MA5-29142)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of CEACAM1 was observed in Hep G2, HT-29 and COLO205 in comparison to PC-3 and Caki-1, the cell lines which have low or no CEACAM1 expression, using Anti-CEACAM1 Recombinant Rabbit Monoclonal Antibody (Product # MA5-29142) in Western Blot. (PMID: 7805032, <https://doi.org/10.1002/path.1657>). {RE}



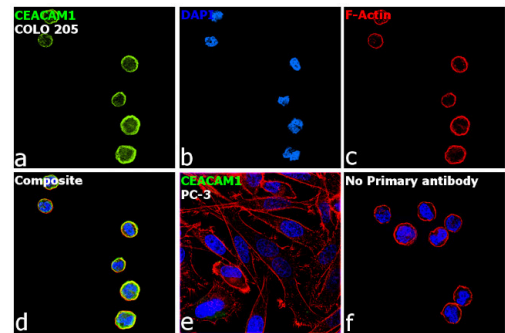
CEACAM1 Antibody (MA5-29142) in WB

Western blot was performed using Anti-CEACAM1 Recombinant Rabbit Monoclonal Antibody (Product # MA5-29142) and a 130 kDa band corresponding to CEACAM1 was observed across cell lines except PC-3 and Caki-1 which are reported to be negative, along with uncharacterized bands (*) at ~ 36, 38, 100 kDa . Membrane enriched extracts (30 µg lysate) of Hep G2 (Lane 1), HT-29 (lane 2), COLO 205 (Lane 3), PC-3 (Lane 4) and Caki-1 (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:500 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076).



CEACAM1 Antibody (MA5-29142) in ICC/IF

Immunofluorescence analysis of CEACAM1 was performed using COLO 205 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with CEACAM1 Recombinant Rabbit Monoclonal Antibody (103) (Product # MA5-29142) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1: 300). Panel d represents the merged image showing plasma membrane and cytoplasm localization. Panel e represents PC-3 cells having no expression of CEACAM1. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



1 Reference

Functional Assay (1)

iScience	Year 2022
<i>Moraxella catarrhalis</i> evades neutrophil oxidative stress responses providing a safer niche for nontypeable <i>Haemophilus influenzae</i>.	Species Human
"MA5-29142 was used in Functional assay to suggest medical interventions to tackle COPD and potentially other diseases in which they co-exist."	
Authors: Nicchi S,Giusti F,Carello S,Utrio Lanfaloni S,Tavarini S,Frigimelica E,Ferlenghi I,Rossi Paccani S,Merola M, Delany I,Scarlato V,Maione D,Brettoni C	

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.