ICAM-2 Recombinant Rabbit Monoclonal Antibody (041)

Product Details	
Size	100 µL
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	041
Conjugate	Unconjugated
Immunogen	Recombinant Human ICAM2 protein (Met1-Gln223)
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_2785219

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100	-
ELISA (ELISA)	1:5,000-1:10,000	-

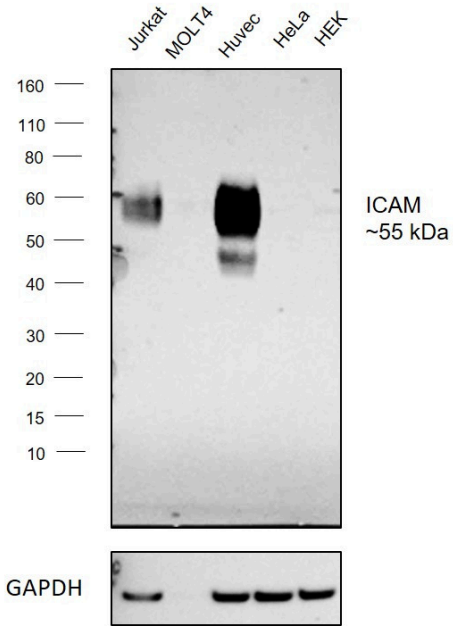
Product Specific Information

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

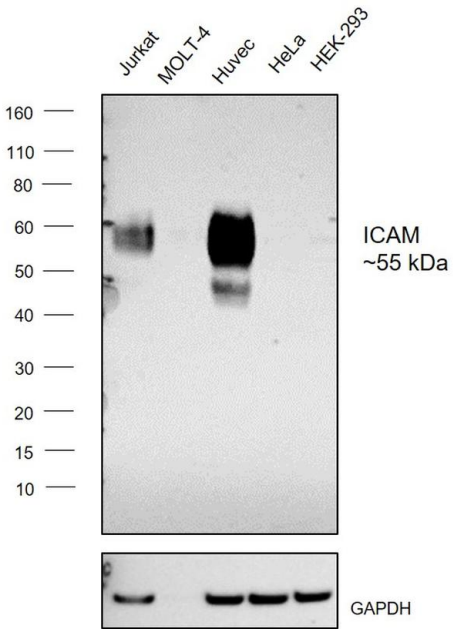
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages 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 ICAM2/CD102.

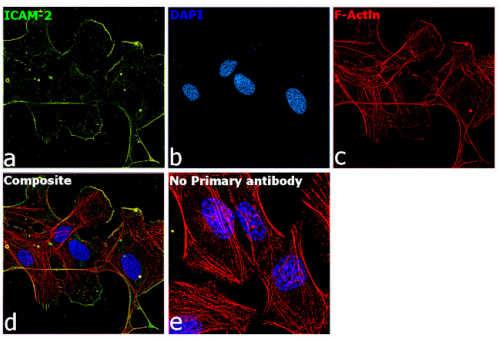
Product Images For ICAM-2 Recombinant Rabbit Monoclonal Antibody (041)



ICAM-2 Antibody (MA5-29335)
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines and tissues owing to their inherent genetic constitution. Relative expression of ICAM2 was observed in Jurkat and Huvec when compared to MOLT-4, HeLa and HEK-293 using ICAM-2 Recombinant Rabbit Monoclonal Antibody (41), (Product # MA5-29335) in western blot. {RE}



ICAM-2 Antibody (MA5-29335) in WB
Western blot was performed using Anti-ICAM-2 Recombinant Rabbit Monoclonal Antibody (41), (Product # MA5-29335) and 55 kDa band corresponding to ICAM was observed across cell lines tested except in MOLT-4, HeLa and HEK-293 which are reported to be negative. Wole cell extracts (30 µg lysate) of Jurkat (Lane 1), MOLT-4 (Lane 2), Huvec (Lane 3), HeLa (Lane 4) and HEK-293 (Lane 5) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX). 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 (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1: 4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



ICAM-2 Antibody (MA5-29335) in ICC/IF
Immunofluorescence analysis of ICAM-2 was performed using 70% confluent log phase Huvec 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 ICAM-2 Recombinant Rabbit Monoclonal Antibody (41) (Product # MA5-29335) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790) 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 localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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