

# CD133 Monoclonal Antibody (5E3)

Product Details	
Size	100 µL
Species Reactivity	Human
Published Species	Mouse
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	5E3
Conjugate	Unconjugated
Immunogen	Recombinant full length human CD133
Form	Liquid
Concentration	1.0 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.2, with 50% glycerol
Contains	0.02% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2539686

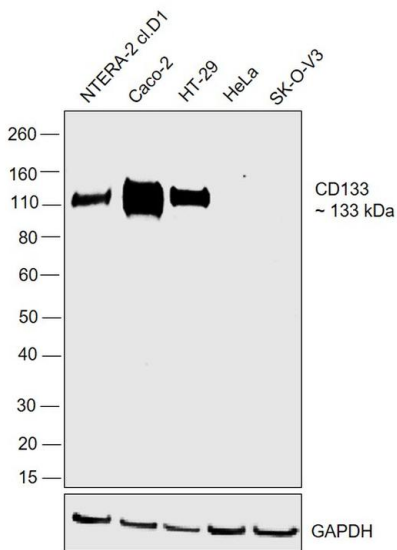
Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:1,000	-
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication

## Product Specific Information

This antibody detects endogenous protein at a molecular weight of 133 kDa and does not cross-react with related proteins.

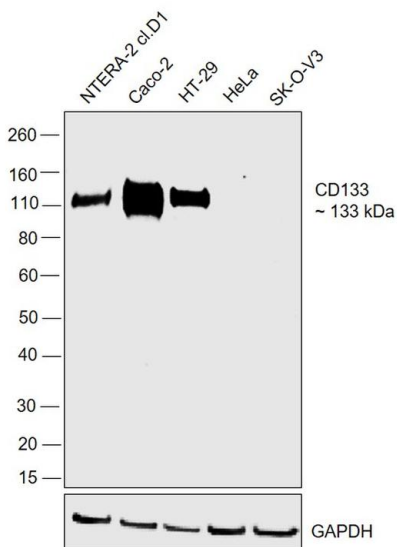
Purity is >95% by SDS-PAGE.

## Product Images For CD133 Monoclonal Antibody (5E3)



### CD133 Antibody (MA5-18323) in WB

Western Blot was performed using Anti-CD133 Monoclonal Antibody (5E3) (Product # MA5-18323) and a 133 kDa band corresponding to Prominin-1 was observed across cell lines tested except HeLa and SK-O-V3 which are reported to be low or negative for CD133 expression. Membrane enriched extracts (30 µg lysate) of NTERA-2 cl.D1 (Lane 1), Caco-2 (Lane 2), HT-29 (Lane 3), HeLa (Lane 4) and SK-O-V3 (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23002) 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-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

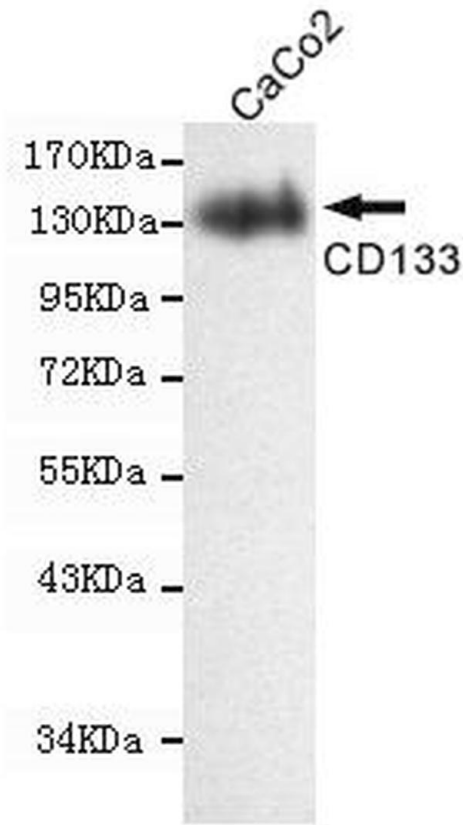


### CD133 Antibody (MA5-18323)

Antibody specificity was demonstrated by the detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of Prominin-1 was observed in all the cell lines tested except in HeLa and SK-O-V3 which are reported to be low or negative for CD133 expression using Anti-CD133 Monoclonal Antibody (5E3) (Product # MA5-18323) in Western Blot. {RE}

### CD133 Antibody (MA5-18323) in WB

Western blot analysis of CD133 in CaCo2 cell lysate. Samples were incubated with CD133 monoclonal antibody (Product # MA5-18323) at a dilution of 1:1,000.



[View more figures on thermofisher.com](#)

## 1 Reference

### Immunohistochemistry (Paraffin) (1)

Biochemistry and cell biology = Biochimie et biologie cellulaire

#### Structural and ultrastructural evaluation of the aortic wall after transplantation of bone marrow-derived cells (BMCs) in a model for atherosclerosis.

"MA5-18323 was used in immunohistochemistry - paraffin section to assess the effect of therapy with bone marrow-derived cells an atherosclerotic mouse model."

Authors: Felix AS, Monteiro N, Rocha VN, Oliveira G, Nascimento AL, de Carvalho L, Thole A, Carvalho J

**Species**  
Mouse

**Dilution**  
1:100

**Year**  
2015

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