CD51 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	CHO-derived recombinant human Integrin alpha V/CD51 Phe31-Val992
Form	Lyophilized
Concentration	0.2 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 5% trehalose
Contains	No Preservative
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2609681

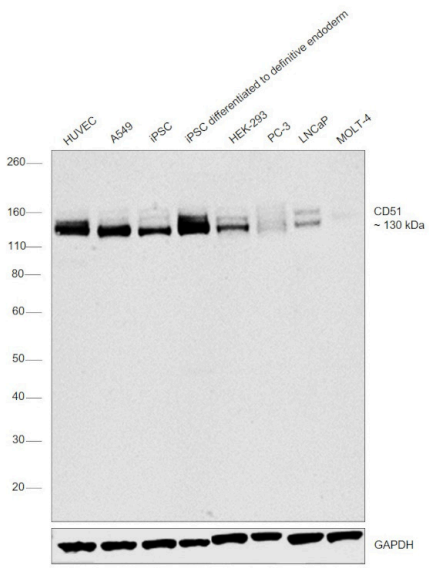
Applications	Tested Dilution	Publications
Western Blot (WB)	0.1-0.5 µg/mL	-
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	5-15 µg/mL	-
Flow Cytometry (Flow)	2.5 µg per million cells	-

Product Specific Information

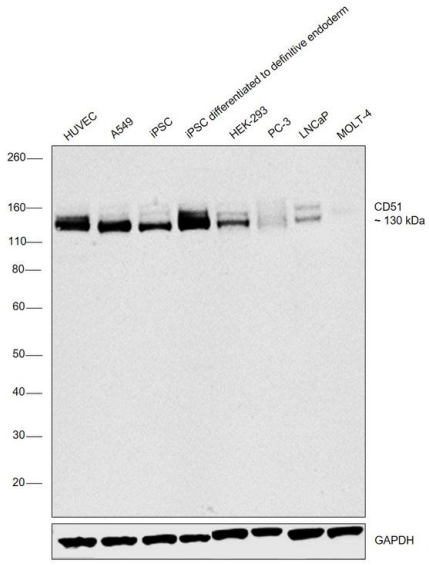
In Western blots, less than 1% cross-reactivity with recombinant human Integrin alpha 5 and recombinant mouse Integrin E is observed.

Reconstitute at 0.2 mg/mL in sterile PBS.

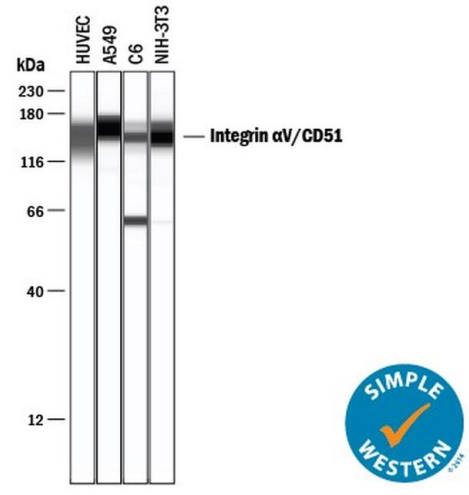
Product Images For CD51 Polyclonal Antibody



CD51 Antibody (PA5-47096)
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Western Blot analysis using Anti-CD51 Polyclonal Antibody (Product # PA5-47096) shows increased expression of CD51 in iPSC differentiated to definitive endoderm in comparison to iPSC. {RE}



CD51 Antibody (PA5-47096) in WB
Western blot was performed using Anti-CD51 Polyclonal Antibody (Product # PA5-47096) and a 130 kDa band corresponding to CD51 was observed across all the cell lines tested and the expression was increased in iPSC upon differentiation to definitive endoderm. Membrane enriched extracts (30 µg lysate) of HUVEC (Lane 1), A549 (Lane 2), iPSC (Lane 3), iPSC differentiated to definitive endoderm (Lane 4), HEK-293 (Lane 5), PC-3 (Lane 6), LNCaP (Lane 7) and MOLT-4 (Lane 8) were electrophoresed using Novex® 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 (0.5 µg/mL) and detected by chemiluminescence with Rabbit anti-Goat IgG Heavy Chain, Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27014, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



CD51 Antibody (PA5-47096) in WB
Western blot analysis of Integrin alpha V (CD51) in 0.2 mg/mL lysates of HUVEC human umbilical vein endothelial cells, A549 human lung carcinoma cell line, C6 rat glioma cell line, and NIH,3T3 mouse embryonic fibroblast cell line. Samples were incubated in Integrin alpha V (CD51) polyclonal antibody (Product # PA5-47096) using a dilution of 20 µg/mL followed by HRP-conjugated Anti-Goat IgG at a dilution of 0.0763888888888889. A specific band was detected for Integrin V /CD51 at approximately 149-161 kDa (as indicated). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

View more figures on thermofisher.cn

1 Reference

Immunohistochemistry (1)

Respiratory research

Wnt signaling regulates trans-differentiation of stem cell like type 2 alveolar epithelial cells to type 1 epithelial cells.

"PA5-47096 was used in Immunohistochemistry-immunofluorescence to establish the link between Wnt signalling and the physiological AT2-to-AT1 trans-differentiation process in human tissues."

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Year
2019

Species
Human

Dilution
1:100