

CD171 Monoclonal Antibody (UJ127), Biotin

Product Details	
Size	500 µL
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	UJ127
Conjugate	Biotin
Immunogen	Homogenous suspension of 16 week human fetal brain
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_10990347

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	1 Publication
Immunohistochemistry (IHC)	-	7 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100	-
Flow Cytometry (Flow)	-	2 Publications
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	2 µg/mL	-

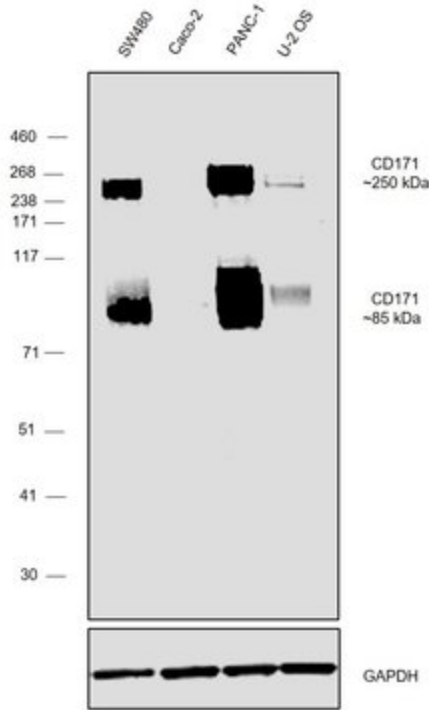
Product Specific Information

MA5-14137 targets L1 Cell Adhesion Molecule in IHC (P), IP, and WB applications and shows reactivity with Human samples.

The MA5-14137 immunogen is homogenous suspension of 16 week human fetal brain.

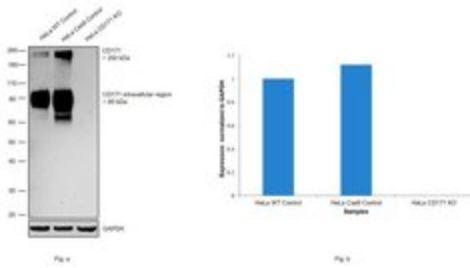
CD171 Antibody (MA5-14137)

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 CD171 was observed in in SW480, PANC-1 and U-2 OS in comparison to Caco-2 using Anti-CD171 Monoclonal Antibody (UJ127), Biotin (Product # MA5-14137) in Western Blot. Relative expression validation info.



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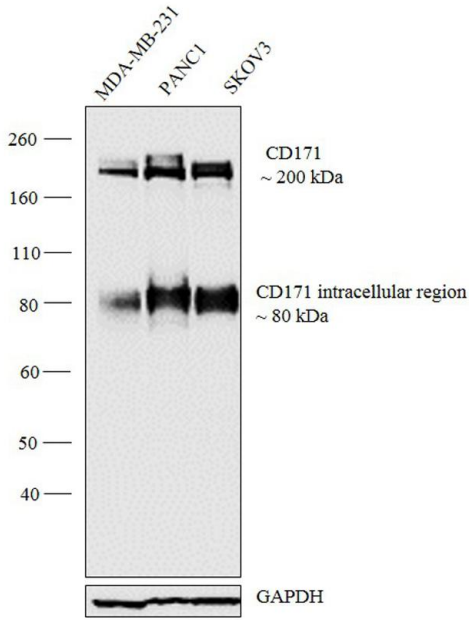
Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in CD171 KO cell line compared to wild type control cell line using CD171 Monoclonal Antibody (Product # MA5-14137). Knockout validation info.



Product Images For CD171 Monoclonal Antibody (UJ127), Biotin

CD171 Antibody (MA5-14137) in WB

Western blot analysis was performed on membrane enriched extracts (30 µg lysate) of MDA-MB-231 (Lane 1), PANC1 (Lane 2) and SKOV3 (Lane 3). The blots were probed with Mouse Anti-CD171 Monoclonal Antibody, Biotin (Product # MA5-14137, 1 µg/mL) and detected by chemiluminescence using Poly-HRP Streptavidin (Product # N200, 1:10,000 dilution). A 200 kDa corresponding to CD171 major form along with lower molecular mass form of 80 kDa corresponding to intracellular region of protein was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with wet transfer system. The membrane was probed with the relevant primary antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



[View more figures on thermofisher.com](https://www.thermofisher.com)

11 References

Western Blot (1)

Neurochemical research

Patterning axonal guidance molecules using a novel strategy for microcontact printing.

"MA5-14137 was used in western blot to develop a protocol for microprinting proteins on a substrate in order to control neurite growth in culture"

Authors: Oliva AA,James CD,Kingman CE,Craighead HG,Banker GA

Species
Human

Dilution
Not Cited

Year
2003

Immunohistochemistry (7)

Anticancer research

Subset of esophageal adenocarcinoma expresses adhesion molecule I1 in contrast to squamous cell carcinoma.

"MA5-14137 was used in immunohistochemistry to study neural cell adhesion molecule L1 overexpression in a subgroup of esophageal cancer"

Authors: Rawnaq T,Kleinhans H,Uto M,Schurr PG,Reichelt U,Cataldegirmen G,Gawad KA,Yekebas EF,Schachner M,Izbicki JR,Kaifi JT

Species
Human

Dilution
1:50

Year
2009

Histopathology

DOG1 and CD117 are the antibodies of choice in the diagnosis of gastrointestinal stromal tumours.

"MA5-14137 was used in immunohistochemistry to study the value of COG1 and CD117 immunohistochemistry in the diagnosis of gastrointestinal stromal tumors"

Authors: Novelli M,Rossi S,Rodriguez-Justo M,Taniere P,Seddon B,Toffolatti L,Sartor C,Hogendoorn PC,Sciot R,Van Glabbeke M,Verweij J,Blay JY,Hohenberger P,Flanagan A,Dei Tos AP

Species
Human

Dilution
Not Cited

Year
2010

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Flow Cytometry (2)

Oncogene

Identification of cell surface and secreted proteins essential for tumor cell survival using a genetic suppressor element screen.

"MA5-14137 was used in flow cytometry to identify molecular markers and therapeutic targets for tumors"

Authors: Gelman MS,Ye XK,Stull R,Suhy D,Jin L,Ng D,Tham B, Ji M,Pan A,Perez P,Sun Y,Yeung P,Garcia LM,Harte R,Lu Y,Lamar E,Tavassoli R,Kennedy S,Osborn S,Chin DJ,Meshaw K,Holzmayr TA,Axenovich SA,Abo A

Species
Human

Dilution
Not Cited

Year
2004

More applications with references on thermofisher.com

ELISA (1)

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