

Mouse anti-Human CD171 Monoclonal Antibody | anti-CD171 antibody

Anti-CD171 [L1-14.10]

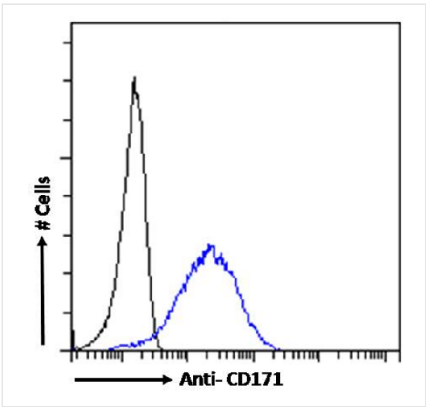
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72138	Mouse	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, Immunoprecipitation, Western Blot, Immunofluorescence

PRODUCT SYNONYMS

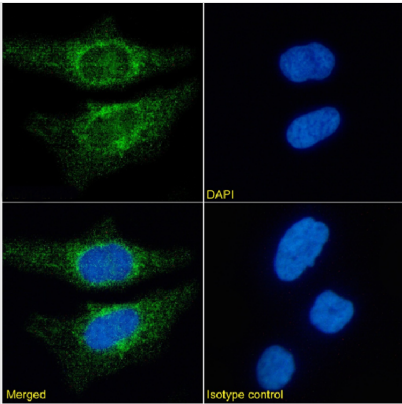
CD171; Monoclonal Antibody; Anti-CD171 [L1-14.10]; L1CAM; 14.10; L1; Neural cell adhesion molecule L1; N-CAM-L1; NCAM-L1; anti-CD171 antibody

PRODUCT SPECIFICATIONS

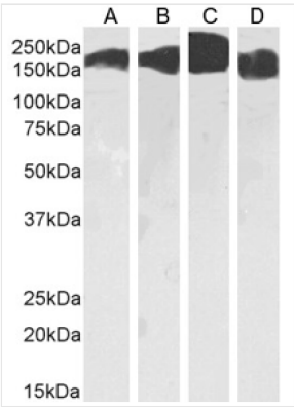
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1, kappa
Clone Number	L1-14.10
Specificity	This antibody is specific for the ectodomain (amino acids M1 to E1123) of human L1, and recognizes an epitope in the third Ig domain. L1 is over-expressed in a range of tumours, including neuroblastomas, renal carcinomas, ovarian and endometrial carcinomas, and melanomas. This antibody does not cross-react with human CHL1.
Purity/Purification	Purified antibody. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD171 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), IP (Immunoprecipitation), WB (Western Blot), IF (Immunofluorescence)
PMID	16867862
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



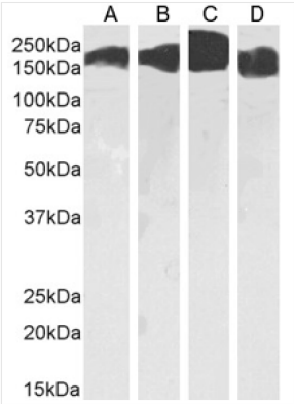
FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-CD171 antibody L1-14.10 . Paraformaldehyde fixed HeLa cells were stained with anti-unknown specificity antibody or the mouse IgG1 version of L1-14.10 (, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-mouse IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



IF (Immunofluorescence)
Immunofluorescence staining of HeLa cells using anti-CD171 L1-14.10 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells stained with the chimeric mouse IgG version of L1-14.10 () at 10ug/ml followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and an isotype control. The isotype control was stained with anti-unknown antibody followed by Alexa Fluor 488 secondary antibody.



WB (Western Blot)
Western Blot using anti-CD171 antibody L1-14.10 . HeLa(A) (0.03ug/ml), Kelly(B) cells (0.01ug/ml), human brain cerebellum(C) (0.003ug/ml) and cerebral cortex(D) (0.01ug/ml) tissue lysate (35ug protein in RIPA buffer) was resolved on an SDS PAGE gel and blots probed with the chimeric mouse IgG version of L1-14.10 () before detection using an anti-mouse secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.



WB (Western Blot)
Western Blot using anti-CD171 antibody L1-14.10 . HeLa(A) (0.03ug/ml), Kelly(B) cells (0.01ug/ml), human brain cerebellum(C) (0.003ug/ml) and cerebral cortex(D) (0.01ug/ml) tissue lysate (35ug protein in RIPA buffer) was resolved on an SDS PAGE gel and blots probed with the chimeric mouse IgG version of L1-14.10 () before detection using an anti-mouse secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.

ADDITIONAL INFORMATION

Related Product Information for anti-CD171 antibody	Recombinant monoclonal antibody to CD171. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma L1-14.10. This antibody was raised by immunising mice with recombinant L1-Fc fusion protein, consisting of the ectodomain of human L1.
Product Categories/Family for anti-CD171 antibody	oncology
References	Huszar et al. Expression profile analysis in multiple human tumors identifies L1 (CD171) as a molecular marker for differential diagnosis and targeted therapy. Hum Pathol. 2006 Aug;37(8):1000-8. Epub 2006 Jun 21. Note on publication: Describes the original generation of this antibody, and its use in immunohistochemical analysis.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557707
NCBI GeneID	3897

NCBI Accession #	NP_000416.1
NCBI GenBank Nucleotide #	NM_000425.4
UniProt Accession #	P32004; Q8TA87; A0AV65; A4ZYW4; B2RMU7; G3XAF4
Molecular Weight	140,003 Da
NCBI Official Full Name	neural cell adhesion molecule L1 isoform 1
NCBI Official Synonym Full Names	L1 cell adhesion molecule
NCBI Official Symbol	L1CAM
NCBI Official Synonym Symbols	S10; HSAS; MASA; MIC5; SPG1; CAML1; CD171; HSAS1; N-CAML1; NCAM-L1; N-CAM-L1
NCBI Protein Information	neural cell adhesion molecule L1; antigen identified by monoclonal antibody R1
UniProt Protein Name	Neural cell adhesion molecule L1
UniProt Gene Name	L1CAM
UniProt Synonym Gene Names	CAML1; MIC5; N-CAM-L1; NCAM-L1
UniProt Entry Name	L1CAM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd171-antibody-clone-l1-14-10-flow-cytometry-immunohistochemistry-immunoprecipitation-western-blot-immunofluorescence-elisa/72138>