

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

Anti-CD171 [L1-14.10]

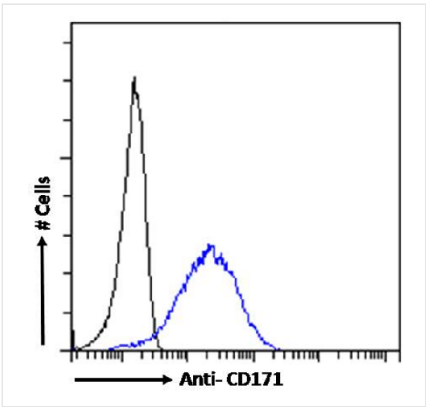
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72139	Rabbit	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, Immunoprecipitation, Western Blot, Immunofluorescence

PRODUCT SYNONYMS

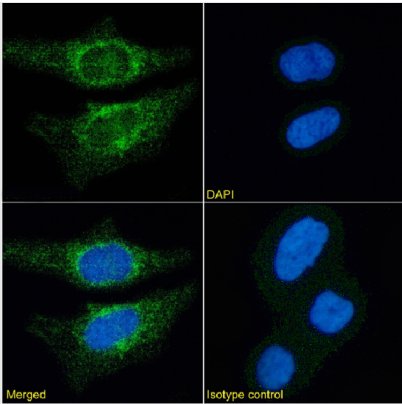
CD171; Monoclonal Antibody; Anti-CD171 [L1-14.10]; L1CAM; 14.10; L1; Neural cell adhesion molecule L1; N-CAM-L1; NCAM-L1; anti-CD171 antibody

PRODUCT SPECIFICATIONS

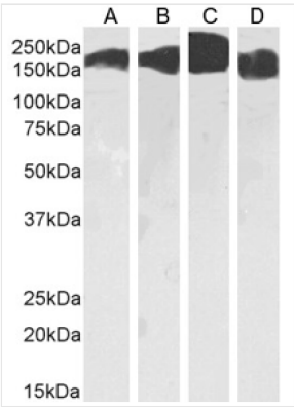
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG, kappa
Clone Number	L1-14.10
Specificity	This antibody is specific for the ectodomain (amino acids M1 to E1123) of human L1, and recognizes an epitope in the third Ig domain. L1 is over-expressed in a range of tumours, including neuroblastomas, 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)
Immunogen	This antibody was raised by immunizing mice with recombinant L1-Fc fusion protein, consisting of the ectodomain of human L1.
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.
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.



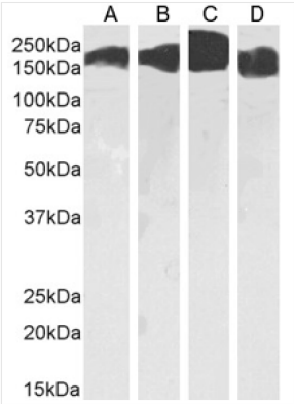
FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-CD171 antibody L1-14.10 (AAA72139). Paraformaldehyde fixed HeLa cells were stained with anti-unknown specificity antibody or the mouse IgG1 version of L1-14.10 at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using 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 (AAA72139) 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 (AAA72139). 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 (AAA72139). 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
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/72139>