

Mouse CD2AP Monoclonal Antibody | anti-CD2AP antibody

Anti-CD2AP Antibody (monoclonal, 5F8)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19185	Mouse	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD2AP; Monoclonal Antibody; Anti-CD2AP Antibody (monoclonal; 5F8); CD2-associated protein; Adapter protein CMS; Cas ligand with multiple SH3 domains; CD2 associated protein; anti-CD2AP antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG1
Clone Number	5F8
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	639
Applicable Applications for anti-CD2AP antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.1-0.5 mug/ml IHC-P: 0.5-1 mug/ml FC/FACS: 1-3ug/1x10 ⁶ cells Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections.
Immunogen	E Coli-derived human CD2AP recombinant protein (Position: K253-K337).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



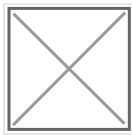
FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of K562 cells using anti-D2AP antibody (M01756). Overlay histogram showing K562 cells stained with M01756 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-D2AP Antibody (M01756, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG (BA1126, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 5. IHC analysis of CD2AP using anti-CD2AP antibody (M01756). CD2AP was detected in paraffin-embedded section of human mammary cancer. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml mouse anti-CD2AP Antibody (M01756) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of CD2AP using anti-CD2AP antibody (M01756). CD2AP was detected in paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml mouse anti-CD2AP Antibody (M01756) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of CD2AP using anti-CD2AP antibody (M01756). CD2AP was detected in paraffin-embedded section of human colon cancer. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml mouse anti-CD2AP Antibody (M01756) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of CD2AP using anti-CD2AP antibody (M01756). CD2AP was detected in paraffin-embedded section of human colon cancer. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml mouse anti-CD2AP Antibody (M01756) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of D2AP using anti-D2AP antibody (M01756). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human K562 whole cell lysate, Lane 2: human A431 whole cell lysate, Lane 3: human 293T whole cell lysate, Lane 4: human U20S whole cell lysate, Lane 5: human HL-60 whole cell lysate, Lane 6: human MCF-7 whole cell lysate, Lane 7: human Hela whole cell lysate, Lane 8: human PANC-1 whole cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-D2AP antigen affinity purified monoclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system.

ADDITIONAL INFORMATION

Related Product Information for anti-CD2AP antibody	Description: Mouse IgG monoclonal antibody for CD2AP detection. Tested with WB, IHC-P, FCM in Human; Mouse; Rat. Background: CD2-associated protein is a protein that in humans is encoded by the CD2AP gene. This gene encodes a scaffolding molecule that regulates the actin cytoskeleton. The protein directly interacts with filamentous actin and a variety of cell membrane proteins through multiple actin binding sites, SH3 domains, and a proline-rich region containing binding sites for SH3 domains. The cytoplasmic protein localizes to membrane ruffles, lipid rafts, and the leading edges of cells. It is implicated in dynamic actin remodeling and membrane trafficking that occurs during receptor endocytosis and cytokinesis. Haploinsufficiency of this gene is implicated in susceptibility to glomerular disease.
References	1. Cochran, J. N., Rush, T., Buckingham, S. C., Roberson, E. D. The Alzheimer's disease risk factor CD2AP maintains blood-brain barrier integrity. Hum. Molec. Genet. 24: 6667-6674, 2015. 2. Lowik, M. M., Groenen, P. J. T. A., Pronk, I., Lilien, M. R., Goldschmeding, R., Dijkman, H. B., Levtschenko, E. N., Monnens, L. A., van den Heuvel, L. P. Focal segmental glomerulosclerosis in a patient homozygous for a CD2AP mutation. Kidney Int. 72: 1198-1203, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11321634
NCBI GeneID	23607
NCBI Accession #	NP_036252.1
NCBI GenBank Nucleotide #	NM_012120.3
UniProt Accession #	Q9Y5K6; Q5VYA3; Q9UG97; A6NL34
Molecular Weight	71,451 Da
NCBI Official Full Name	CD2-associated protein
NCBI Official Synonym Full Names	CD2 associated protein
NCBI Official Symbol	CD2AP
NCBI Official Synonym Symbols	CMS
NCBI Protein Information	CD2-associated protein
UniProt Protein Name	CD2-associated protein
UniProt Gene Name	CD2AP

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd2ap-antibody-clone-5f8-western-blot-immunohistochemistry-flow-cytometry-elisa/19185>