

CD11a Polyclonal Antibody

Catalog Number PA5-19161

Product data sheet

| Details            |   | Species Reactivity   |             |
|--------------------|---|--|-------------|
| Size               | 100 µg  | Species reactivity   | Human       |
| Host/Isotope       | Goat / IgG  | Tested Applications  |             |
| Class              | Polyclonal  | Immunohistochemistry (Paraffin) (IHC (P))  | 3.75 µg/mL  |
| Type               | Antibody  | Western Blot (WB)  | 0.5-2 µg/mL |
| Immunogen          | Synthetic peptide sequence (YQVRIQPSIHDHN) corresponding to the internal amino acids of ITGAL | * Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls. |             |
| Conjugate          | Unconjugated  |  |             |
| Form               | Liquid  |  |             |
| Concentration      | 0.5 mg/mL   |  |             |
| Purification       | Ammonium sulfate precipitation  |  |             |
| Storage buffer     | TBS, pH 7.3, with 0.5% BSA  |  |             |
| Contains           | 0.02% sodium azide  |  |             |
| Storage Conditions | -20° C, Avoid Freeze/Thaw Cycles  |  |             |

Product specific information

This antibody is predicted to react with canine based on sequence homology. This antibody is tested in Peptide ELISA: antibody detection limit dilution 16,000.

Background/Target Information

CD11a (LFA-1 alpha, ITGAL) together with CD18 constitute leukocyte function-associated antigen 1 (LFA-1), the alphaLbeta2 integrin. CD11a is implicated in activation of LFA-1 complex. CD11a plays a central role in leukocyte intercellular adhesion through interactions with its ligands, ICAMs 1-3 (intercellular adhesion molecules 1 through 3), and also functions in lymphocyte costimulatory signaling. CD11a is expressed on the plasma membrane of leukocytes in a low-affinity conformation. Cell stimulation by chemokines or other signals leads to induction the high-affinity conformation, which supports tight binding of CD11a to its ligands, the intercellular adhesion molecules ICAM-1, -2, -3. CD11a is thus involved in interaction of various immune cells and in their tissue-specific settlement, but participates also in control of cell differentiation and proliferation and of T-cell effector functions. Blocking of CD11a function by specific antibodies or small molecules has become an important therapeutic approach in treatment of multiple inflammatory diseases. For example, humanized anti- CD11a antibody Efalizumab (Raptiva) is being used to interfere with T cell migration to sites of inflammation, binding of cholesterol-lowering drug simvastatin to CD11a allosteric site leads to immunomodulation and increase in lymphocytic cholinergic activity. Two transcript variants encoding different isoforms of CD11a have been found. Diseases associated with CD11a dysfunction include benign cephalic histiocytosis and leukocyte adhesion deficiency.

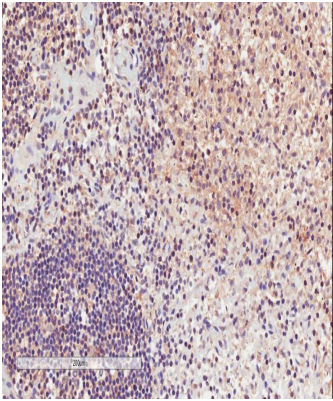
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Product Images For CD11a Polyclonal Antibody



CD11a Antibody (PA5-19161) in IHC (P)

Immunohistochemistry (PFA fixed) analysis of CD11a using CD11a Polyclonal Antibody (Product # PA5-19161) (2 µg /mL) in staining of paraffin embedded Human Lymph Node. Microwaved antigen retrieval with citrate buffer pH 6, HRP-staining.



CD11a Antibody (PA5-19161) in WB

Western blot analysis of CD11a using CD11a Polyclonal Antibody (Product # PA5-19161) (0.5 µg/mL) in staining of Human Spleen lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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