CD11b Monoclonal Antibody (C67F154), Alexa Fluor™ Plus 647

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	C67F154
Conjugate	Alexa Fluor™ Plus 647
Excitation/Emission Max	658/675 nm
Immunogen	E. coli fragment of part of extracellular domain (aa 250-350)
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.5% BSA, 10% proprietary stabilizer
Contains	0.05% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_3251370

Applications	Tested Dilution	Publications
Immunohistochemistry (Paraffin) (IHC (P))	20 µg/mL	-

Product Specific Information

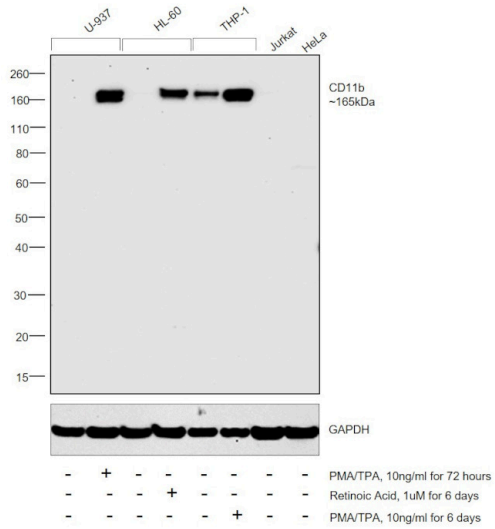
Description: The C67F154 monoclonal antibody reacts with human CD11b. CD11b, also known as integrin alpha-M, is a 165 kDa adhesion molecule that associates non-covalently with integrin beta-2 (CD18). The CD11b/CD18 heterodimeric complex is also known as integrin alpha-M beta-2, Mac-1 (macrophage-1 antigen), and CR3 (complement receptor 3). CD11b is expressed on the surface of monocytes/macrophages, granulocytes, activated lymphocytes, a subset of NK cells, a subset of dendritic cells, and microglia in the brain. CD11b/CD18 functions as the receptor for ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4 (CD242), CD14, CD50, CD23, heparin, iC3b, fibrinogen, and Factor X. These adhesions are critical for cell-cell and cell-matrix interactions.

Applications Reported: This C67F154 antibody has been reported for use in immunohistochemistry and western blotting.

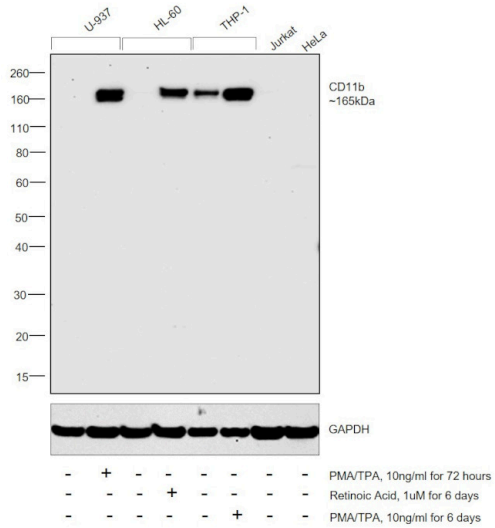
Applications Tested: This C67F154 antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded tissue using high pH antigen retrieval and can be used at 20 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Using conjugate solutions: Centrifuge the protein conjugate solution briefly in a microcentrifuge before use; add only the supernatant to the experiment. This step will help eliminate any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining.

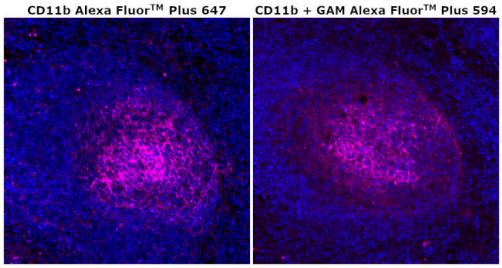
Product Images For CD11b Monoclonal Antibody (C67F154), Alexa Fluor™ Plus 647



CD11b Antibody (756-0196-82)
Clone C67F154 specificity was demonstrated by detection of differential basal expression of the target across cell lysates tested owing to their inherent genetic constitution. Relative expression of CD11b was observed to be high in THP-1 in comparison to no expression in Jurkat and HeLa cell lines by Western Blot. {RE}



CD11b Antibody (756-0196-82)
Altered expression of the target protein upon cell treatment demonstrates clone C67F154 specificity. Western blot analysis shows increased CD11b expression upon treatment of U-937 with PMA/TPA, HL-60 with Retinoic Acid and THP-1 with PMA/TPA. {TM}



CD11b Antibody (756-0196-82) in IHC (P)
Immunohistochemical analysis of CD11b was performed on FFPE human tonsil tissue. To expose the target protein, HIER was performed on de-paraffinized sections using BOND Epitope Retrieval Solution 2 (pH 9) for 10 mins, followed by a 5-min cool down and a 5-min wash with ddH2O. Tissues were permeabilized with 0.1% Triton X-100 in 1X PBS for 30 mins and blocked with 3% BSA/5% normal goat serum/1X PBS for 1 hr at RT. Following the removal of the blocking solution, tissues were probed with CD11b Monoclonal Antibody (C67F154), Alexa Fluor™ Plus 647 (Product # 756-0196-82) at 20 µg/mL (left) or CD11b Monoclonal Antibody (C67F154), eBioscience™ (Product # 14-0196-82) at 1 µg /mL (right), respectively, in blocking solution for one hr at RT in a humidified chamber. Tissues were then washed three times, 5 mins each, in 1X PBS. Detection of the unconjugated primary antibody was performed using Goat anti-Mouse IgG1 Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 647 (Product # A-21240) at a dilution of 1:2,000 in blocking solution for one hr at RT, followed by three, 5-min washes in 1X PBS. Sections were stained with DAPI (Product # 62247) at 1 µg/mL diluted in 1X PBS for 5 mins at RT, washed twice in 1X PBS followed by a final rinse in ddH2O. Tissues were mounted with ProLong™ Glass Antifade Mountant (Product # P36982) and images were captured on EVOS™ M7000 Imaging System (Product # AMF7000) at 20X magnification.

View more figures on thermofisher.cn