

CD15 Monoclonal Antibody (MMA), Alexa Fluor™ 514

Product Details

Size	500 µL
Species Reactivity	Human
Host/Isotype	Mouse / IgM
Class	Monoclonal
Type	Antibody
Clone	MMA
Conjugate	Alexa Fluor™ 514
Excitation/Emission Max	518/543 nm
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
RRID	AB_3679232

Applications	Tested Dilution	Publications
Immunohistochemistry (Paraffin) (IHC (P))	1 µg/mL	-

Product Specific Information

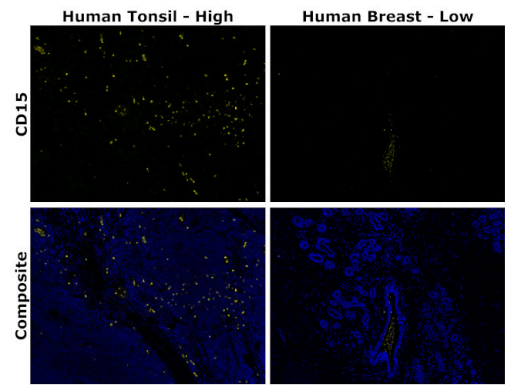
Description: The MMA monoclonal antibody reacts with human CD15, Lewis X. This 3-fucosyl-N-acetyllactosamine carbohydrate moiety is expressed by granulocytes. Monocytes express this structure at varying degree while lymphocytes are negative.

Applications Reported: This MMA antibody has been reported for use in flow cytometric analysis and immunohistochemical staining of paraffin-embedded tissue.

Applications Tested: This MMA antibody has been tested by immunohistochemistry on formalin-fixed paraffin embedded human tissue with high pH antigen retrieval at 1 µg/mL. It is recommended that this antibody be carefully titrated for optimal performance in the assay of interest.

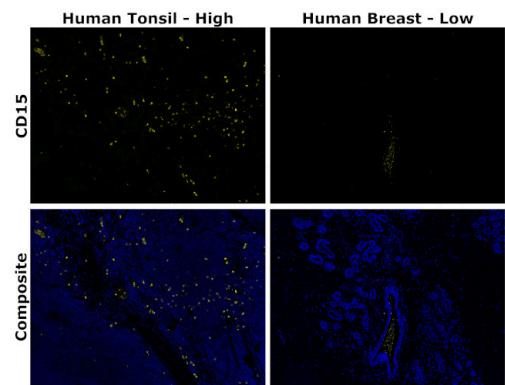
Using conjugate solutions: Centrifuge the protein conjugate solution briefly in a microcentrifuge before use; add only the supernatant to the experiment. This step will help eliminate any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining.

Product Images For CD15 Monoclonal Antibody (MMA), Alexa Fluor™ 514



CD15 Antibody (753-0158-94)

Antibody specificity was demonstrated by the relative expression of target protein in different tissues by IHC. Differential expression of CD15 in human tonsil and human breast tissues using CD15 Monoclonal Antibody (MMA), Alexa Fluor™ 514 (Product # 753-0158-94) shows strong staining of target protein in human tonsil tissue when compared to human breast tissue. {RE}

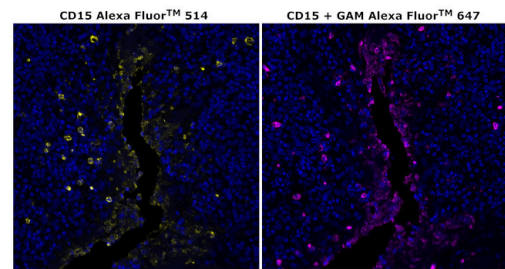


CD15 Antibody (753-0158-94) in IHC (P)

Immunohistochemical analysis of CD15 was performed on formalin-fixed paraffin-embedded human tonsil (high expression) and human breast (low expression) tissues. To expose the target protein, HIER was performed on de-paraffinized sections using BOND Epitope Retrieval Solution 2 (pH 9) for 10 min, followed by a 5 min cool down, a 1 min wash with ddH2O, and then transferred to 1X PBS. Tissues were permeabilized with 0.1% Triton X-100 in 1X PBS for 30 min, washed three times with 1X PBS and blocked with 3% BSA/5% normal goat serum in 1X PBS for 1 hr at RT. Following the removal of the blocking solution, tissues were probed with CD15 Monoclonal Antibody (MMA), Alexa Fluor™ 514 (Product # 753-0158-94) at 1 µg/mL, in blocking solution for 1 hr at RT in a humidified chamber. Tissues were then washed twice for 5 min each in 1X PBS + 0.05% Tween-20 (PBST), and once for 5 min in 1X PBS. Sections were stained with DAPI (Product # 62247) at 1 µg/mL diluted in 1X PBS for 5 min 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.

CD15 Antibody (753-0158-94) in IHC (P)

Immunohistochemical analysis of CD15 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 min, followed by a 5 min cool down, a 1 min wash with ddH2O, and then transferred to 1X PBS. Tissues were permeabilized with 0.1% Triton X-100 in 1X PBS for 30 min, washed three times in 1X PBS and blocked with 3% BSA/5% normal goat serum /1X PBS for 1 hr at RT. Tissues were then probed with CD15 Monoclonal Antibody (MMA), Alexa Fluor™ 514 (Product # 753-0158-94) at 1 µg/mL (left) or with CD15 Monoclonal Antibody (MMA) (Product # MA1-26893) at 1 µg/mL (right), respectively, in blocking solution for 1 hr at RT in a humidified chamber. Tissues were then washed twice for 5 min each in 1X PBST (0.05% Tween-20), then once for 5 min in 1X PBS. Detection of the unconjugated primary antibody was performed using Goat anti-Mouse IgM (Heavy chain) Secondary Antibody, Alexa Fluor™ 647 (Product # A-21238) at a dilution of 1:2,000 in blocking solution for 1 hr at RT, followed by two 5 min washes in 1X PBST then one 5 min wash in 1X PBS, and then stained with DAPI (Product # 62247) at 1 µg/mL diluted in 1X PBS for 5 min at RT. The sections were washed twice in 1X PBS followed by a final rinse in ddH2O and were mounted with ProLong™ Glass Antifade Mountant (Product # P36982). Images were captured on EVOS™ M7000 Imaging System (Product # AMF7000) at 20X magnification.



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