

CD8a Monoclonal Antibody (AMC908), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	AMC908
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574413

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	5 µg/mL	-
Immunocytochemistry (ICC/IF)	5 µg/mL	-

Product Specific Information

Description: This AMC908 monoclonal antibody reacts with the human CD8a molecule, an approximately 32-34 kDa cell surface receptor expressed either as a heterodimer with the CD8 beta chain (CD8 alpha beta) or as a homodimer (CD8 alpha alpha). A majority of thymocytes and a subpopulation of mature T cells and NK cells express CD8a. CD8 binds to MHC class I and through its association with protein tyrosine kinase p56lck plays a role in T-cell development and activation of mature T cells.

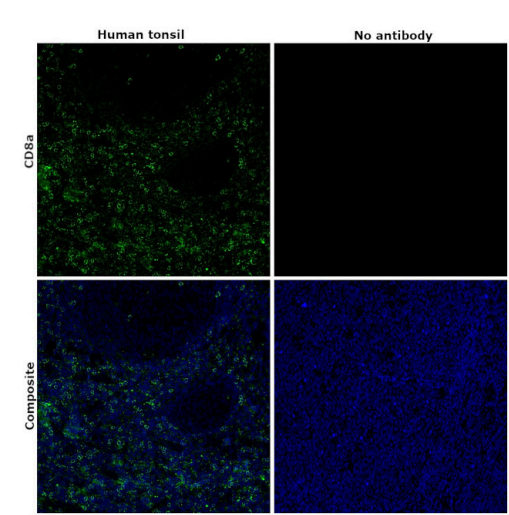
Applications Reported: This AMC908 antibody has been reported for use in immunohistochemical staining of formalin-fixed paraffin embedded tissue sections.

Applications Tested: This AMC908 antibody has been tested by immunohistochemistry on formalin-fixed paraffin embedded human tissue using low pH antigen retrieval and can be used at less than or equal to 5 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

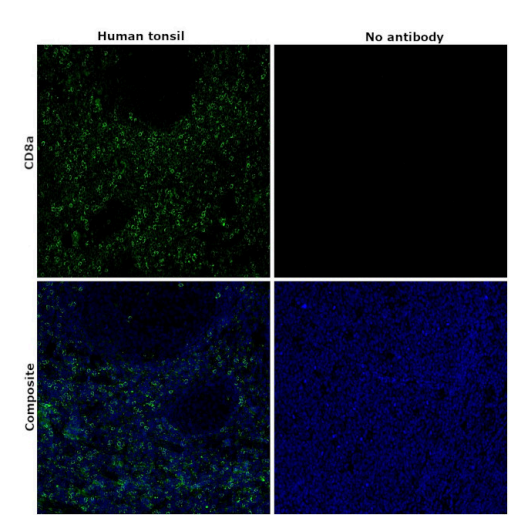
Excitation: 488 nm; **Emission:** 519 nm; **Laser:** Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

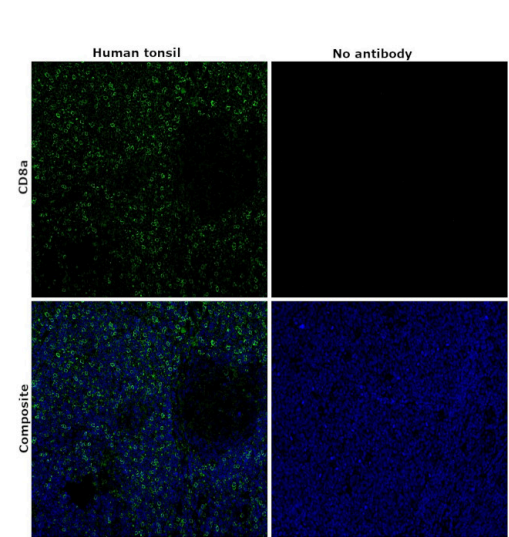
Product Images For CD8a Monoclonal Antibody (AMC908), Alexa Fluor™ 488, eBioscience™



CD8a Antibody (53-0008-82) in IHC (P)
Immunohistochemical analysis of CD8a was performed using formalin-fixed paraffin-embedded human tonsil tissue sections. To expose the target protein, heat-induced epitope retrieval was performed on de-paraffinized sections using eBioscience™ IHC Antigen Retrieval Solution - High pH (10X) (Product # 00-4956-58) diluted to 1X solution in water in a decloaking chamber at 110 degree Celsius for 15 minutes. Following antigen retrieval, the sections were blocked with 2% normal goat serum in 1X PBS for 45 minutes at room temperature and then probed with or without CD8a Monoclonal Antibody (AMC908), Alexa Fluor™ 488, eBioscience™ (Product # 53-0008-82) at 5 µg/mL concentration in 0.1% normal goat serum overnight at 4 degree Celsius in a humidified chamber. ReadyProbes™ Tissue Autofluorescence Quenching Kit (Product # R37630) was used to quench autofluorescence from the tissues. Nuclei were stained with DAPI (Product # D1306) and the sections were mounted using ProLong™ Glass Antifade Mountant (Product # P36984). The images were captured on EVOS™ M7000 Imaging System (Product # AMF7000) at 20X magnification and externally deconvoluted.



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Immunohistochemical analysis of CD8a was performed using formalin-fixed paraffin-embedded human tonsil tissue sections. To expose the target protein, heat-induced epitope retrieval was performed on de-paraffinized sections using eBioscience™ IHC Antigen Retrieval Solution - Low pH (10X) (Product # 00-4955-58) diluted to 1X solution in water in a decloaking chamber at 110 degree Celsius for 15 minutes. Following antigen retrieval, the sections were blocked with 2% normal goat serum in 1X PBS for 45 minutes at room temperature and then probed with or without CD8a Monoclonal Antibody (AMC908), Alexa Fluor™ 488, eBioscience™ (Product # 53-0008-82) at 5 µg/mL concentration in 0.1% normal goat serum overnight at 4 degree Celsius in a humidified chamber. ReadyProbes™ Tissue Autofluorescence Quenching Kit (Product # R37630) was used to quench autofluorescence from the tissues. Nuclei were stained with DAPI (Product # D1306) and the sections were mounted using ProLong™ Glass Antifade Mountant (Product # P36984). The images were captured on EVOS™ M7000 Imaging System (Product # AMF7000) at 20X magnification and externally deconvoluted.

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Immunohistochemistry (4)

<p>Oncoimmunology</p> <p>Long-lived pancreatic ductal adenocarcinoma slice cultures enable precise study of the immune microenvironment.</p> <p>"53-0008 was used in Immunohistochemistry-immunofluorescence to demonstrate the potential of using tumour slice cultures to study the immune microenvironment of pancreatic ductal adenocarcinoma."</p> <p>Authors: Jiang X,Seo YD,Chang JH,Coveler A,Nigjeh EN,Pan S,Jalikus F,Yeung RS,Crispe IN,Pillarisetty VG</p>	<p>Year 2023</p> <p>Species Human</p> <p>Dilution 1:100</p>
<p>Nature communications</p> <p>GZMK^{high} CD8⁺ T effector memory cells are associated with CD15^{high} neutrophil abundance in non-metastatic colorectal tumors and predict poor clinical outcome.</p> <p>"53-0008-82 was used in Immunohistochemistry to highlight the emergence of GZMK^{high} CD8⁺ TEM in non-metastatic CRC tumors as a hallmark driven by the interaction with neutrophils, which could implement current patient stratification and be targeted by novel therapeutics."</p> <p>Authors: Tiberti S,Catozzi C,Croci O,Ballerini M,Cagnina D,Soriani C,Scirgolea C,Gong Z,He J,Macandog AD, Nabinejad A,Nava Lauson CB,Quinte' A,Bertalot G,Petz WL,Ravenda SP,Licursi V,Paci P,Rasponi M,Rotta L,Fazio N, Ren G,Fumagalli-Romario U,Schaefer MH,Campaner S,Lugli E,Nezi L,Manzo T</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:100</p>

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