

**Mouse Anti-CD8 [C8/468+144B]: MC0706, MC0706RTU7**

**Intended Use:** For Research Use Only

**Description:** The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that serves as a coreceptor for TCR recognition of MHC class I associated peptides and supports CTL activation by binding to the MHC, while making no direct contact with the peptide. CD8 is expressed on cytotoxic suppressor T cells. It is expressed as a disulphide-linked  $\alpha/\beta$  heterodimer or as an  $\alpha/\alpha$  homodimer on T cell subset, thymocytes and NK cells. In normal human tonsil, large numbers of CD8+ lymphocytes were present within the paracortex; occasionally positive cells were also identified within germinal centers and within the investing squamous epithelium. In other tissues, only lymphoid cells and cells of histiocyte lineage showed positive staining for CD8. CD8 alpha chains bind to class I MHC molecules alpha-3 domains. Defects in CD8A are a cause of familial CD8 deficiency (CD8 deficiency). Familial CD8 deficiency is a novel autosomal recessive immunologic defect characterized by absence of CD8+ cells, leading to recurrent bacterial infections.

**Specifications:**

Clone: C8/468+144B  
 Source: Mouse  
 Isotype: IgG1k  
 Reactivity: Human  
 Immunogen: Human CD8 recombinant protein (C8/468); A 13 amino acid synthetic peptide from the C-terminal cytoplasmic domain of human CD8 $\alpha$  molecule (C8/144B)  
 Localization: Membrane  
 Formulation: Antibody in PBS pH7.4, containing BSA, and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, Flow Cyt., ICC/IF  
 Package:

Description	Catalog No.	Size
CD8 Concentrated	MC0706	1 ml
CD8 Prediluted	MC0706RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Tonsil  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-CD8 using DAB

**References:**

1. OX40+ Regulatory T Cells in Cutaneous Squamous Cell Carcinoma Suppress Effector T-Cell Responses and Associate with Metastatic Potential. Lai C, et al. Clin Cancer Res 22:4236-48, 2016.
2. Immunological subtypes in breast cancer are prognostic for invasive ductal but not for invasive lobular breast carcinoma. Br Engels CC, et al. J Cancer N/A:N/A, 2014.
3. Inflammatory cell distribution in primary merkel cell carcinoma. Wheat R, et al. Cancers (Basel) 6:1047-64, 2014.
4. Human IP10-scFv and DC-induced CTL synergistically inhibit the growth of glioma in a xenograft model. Wang X, et al. Tumour Biol 35:7781-91, 2014.

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