MEBEP TECH(HK) Co., Limited
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CD8a Monoclonal antibody

Product Number: ATB0032

Shipping and Storage

Store at -20°C. Stable for one year after shipment. Storage Buffer:PBS with 0.02% sodium azide and 50% glycerol, pH7.3. Aliquoting is unnecessary for -20°C storage.

Component

Component	ATB0032-100μL	ATB0032-150μL
CD4 Monoclonal antibody	100μL	150μL

Description

CD8 is a transmembrane glycoprotein that is predominantly expressed on the surface of cytotoxic T cells, and can also be found on natural killer cells, cortical thymocytes, and dendritic cells. CD8 serves as a co-receptor for the T cell receptor (TCR). Both CD8 and TCR recognize antigens displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. CD8 plays a role in T cell development and activation of mature T cells. This antibody is raised against 23-183 aa of human CD8a, the alpha chain of CD8 molecule.

Basic Information

1. Source: Mouse
2. Isotype:IgG1
3. Immunogen Catalog Number: AG11111
4. GenBank Accession Number: BC025715
5. GeneID (NCBI): 925
6. ENSEMBL Gene ID: ENSG00000153563
7. UNIPROT ID: P01732
8. Full Name: CD8a molecule
9. Calculated MW: 235 aa, 26 kDa
10. Observed MW: 32 kDa
11. Purification Method: Protein G purification
12. CloneNo.: 1G2B10
13. Recommended Dilutions: WB: 1:2000-1:10000; IHC: 1:10000-1:40000; IF-P: 1:400-1:1600.

Application

1. Tested Applications: WB, IHC, IF-P, ELISA
2. Cited Applications: WB, IHC, IF, IF-P
3. Species Specificity: human
4. Cited Species: human, pig, bovine
5. Note-IHC: suggested antigen retrieval with te buffer pH 9.0; Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0
6. Positive Controls:WB : MOLT-4 cells, human peripheral blood leukocyte; IHC : human tonsillitis tissue, human lymphoma tissue, human breast cancer tissue, human colon cancer tissue, human colon tissue, human lung cancer tissue, human pancreas cancer tissue, human appendicitis tissue; IF-P : human tonsillitis tissue.

Selected Validation Data

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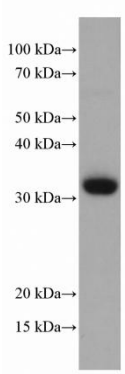
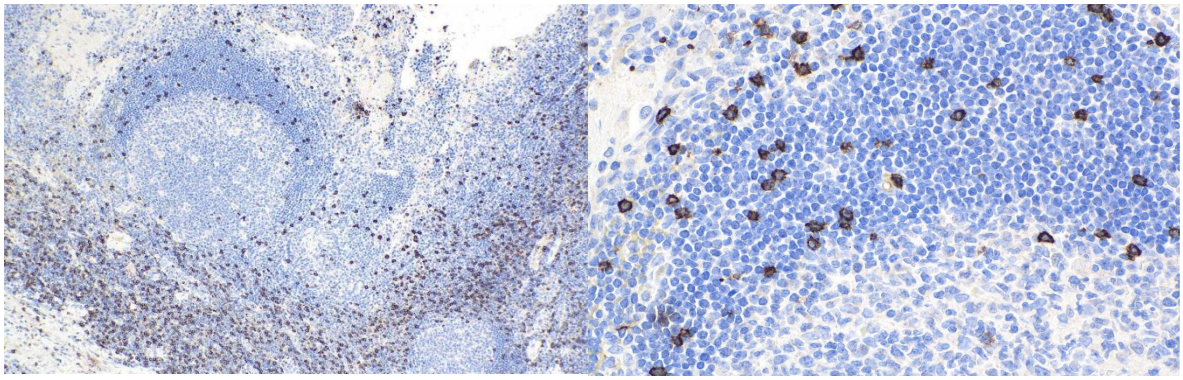
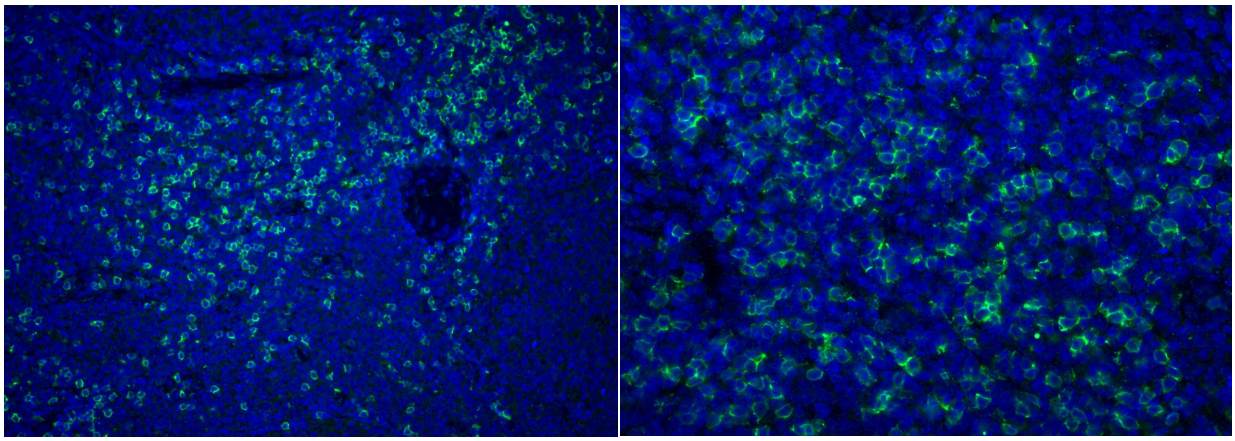
MOLT-4 cells were subjected to SDS PAGE followed by western blot with CD8a antibody at dilution of 1:5000 incubated at room temperature for 1.5 hours.



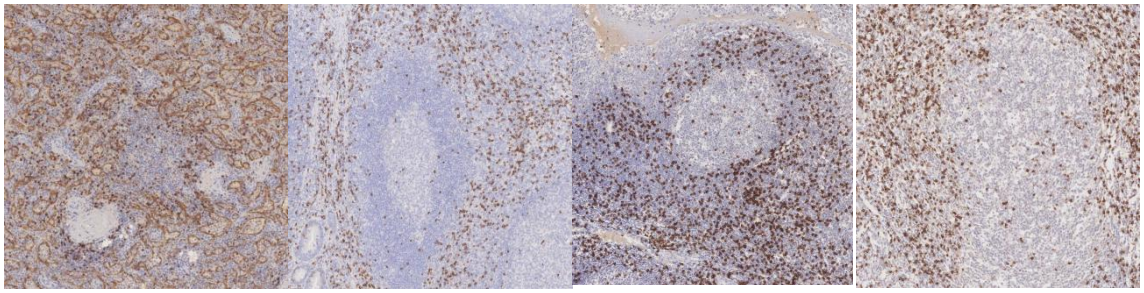
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using CD8a antibody at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). (picture2.1-2.2)

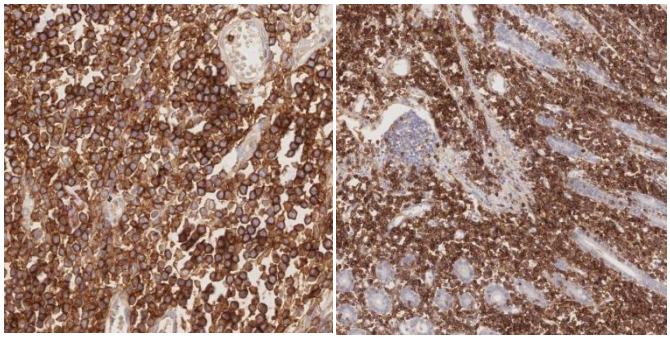


Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using CD8a antibody at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) . Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). (picture3.1-3.2)

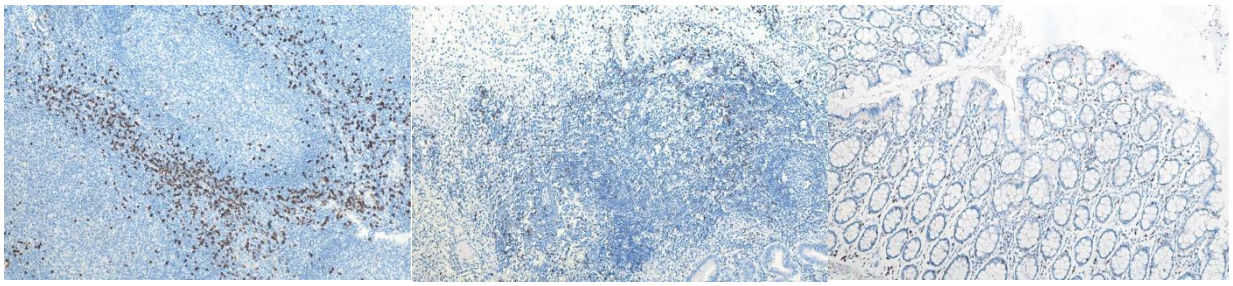
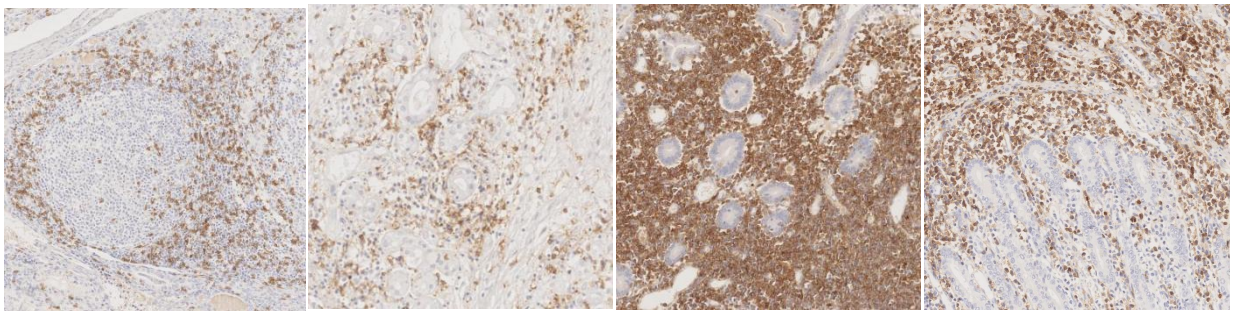
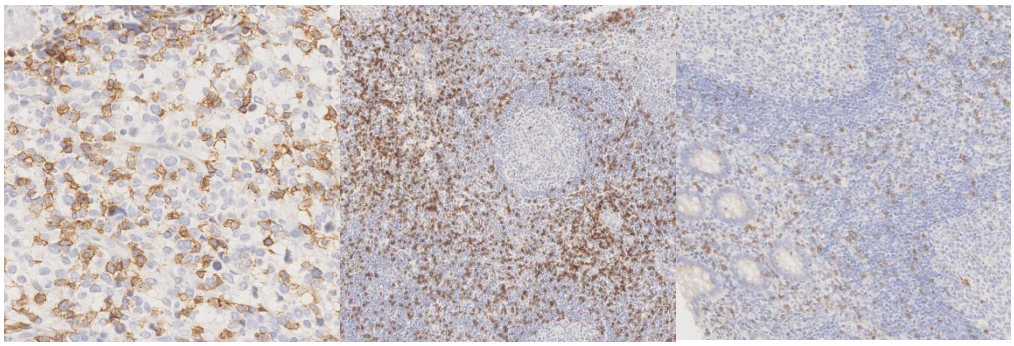


Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using CD8a antibody at dilution of 1:10000. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). The staining was performed on an autostainer. (picture4.1-4.6)





Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using CD8 antibody at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). (picture5.1-5.3)



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using (CD8a antibody at dilution of 1:10000. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). (picture6.1-6.7)