CD8 a (ABT304) IHC kit

CatalogNo: IHCM6938

Key Features

Host Species
- Mouse

Reactivity
- Human,

Applications
- IHC

Isotype
- IgG2b,Kappa

Recommended Dilution Ratios

Storage

Storage*	2°C to 8°C/1 year

Basic Information

Clonality	Monoclonal
Clone Number	ABT304

Immunogen Information

Immunogen	Synthesized peptide derived from human CD8 AA range: 100-235
Specificity	The antibody can specifically recognize human CD8 protein, including two typies of dimer: αβ heterodimer or αα homodimer.

Target Information

Gene name	CD8A MAL

Protein Name alpha polypeptide (p32);CD_antigen=CD8a;CD8;CD8 antigen alpha polypeptide;CD8 antigen alpha polypeptide (p32);CD8 antigen, alpha polypeptide (p32);CD8a;CD8A antigen;CD8A molecule;CD8A_HUMAN;Leu2;Leu2 T lymphocyte antigen;Ly 2;Ly 35;Ly B;Ly2;Ly3;Ly35;LyB;Lyt 2.1 lymphocyte differentiation antigen (AA at 100);LYT3;MAL;OKT8 T cell antigen;OTTHUMP00000160760;OTTHUMP00000160764;OTTHUMP00000203528;OTTHUMP00000203721;p32;T cell antigen Leu2;T cell co receptor;T lymphocyte differentiation antigen T8/Leu 2;T-cell surface glycoprotein CD8 alpha chain;T-cell surface glycoprotein Lyt 2;T-lymphocyte differentiation antigen T8/Leu-2;T8 T cell antigen;T8/Leu-2 T-lymphocyte differentiation antigen

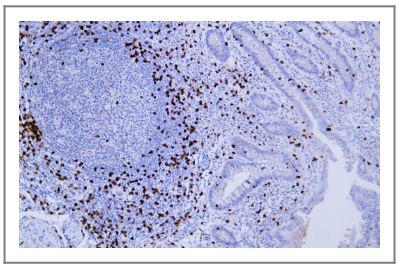
Organism	Gene ID	UniProt ID
Human	925;	P01732;
Mouse		P01731;
Rat		P07725;

Cellular Localization Membranous

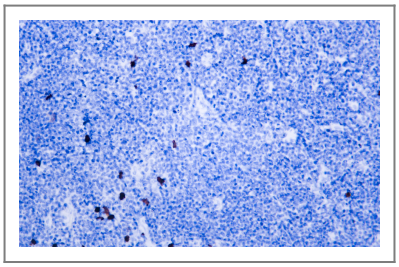
Tissue specificity Tonsil/ Appendix

Function Disease:Defects in CD8A are a cause of familial CD8 deficiency (CD8 deficiency) [MIM:608957]. Familial CD8 deficiency is a novel autosomal recessive immunologic defect characterized by absence of CD8+ cells, leading to recurrent bacterial infections.,Function:Identifies cytotoxic/suppressor T-cells that interact with MHC class I bearing targets. CD8 is thought to play a role in the process of T-cell mediated killing. CD8 alpha chains binds to class I MHC molecules alpha-3 domains.,online information:CD8 entry,online information:CD8A mutation db,PTM:All of the five most carboxyl-terminal cysteines form inter-chain disulfide bonds in dimers and higher multimers, while the four N-terminal cysteines do not.,similarity:Contains 1 Ig-like V-type (immunoglobulin-like) domain.,subunit:In general heterodimer of an alpha and a beta chain linked by two disulfide bonds. Can also form homodimers. Shown to be expressed as heterdimer on thymocytes and as homodimer on peripheral blood T-lymphocytes. Interacts with the MHC class I HLA-A/B2M dimer. Interacts with LCK in a zinc-dependent manner.,

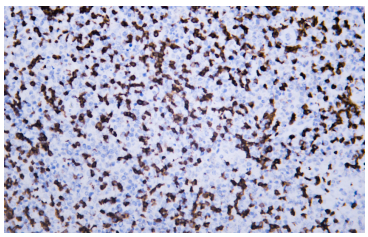
Validation Data



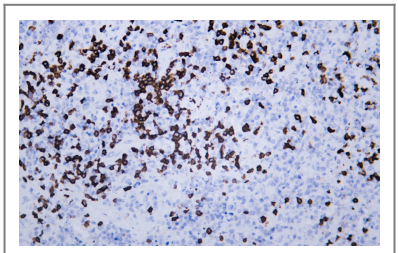
Human appendix tissue was stained with Anti-CD8 (ABT304) Antibody



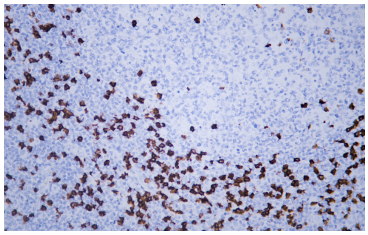
Human burkitt lymphoma tissue was stained with Anti-CD8 (ABT304) Antibody



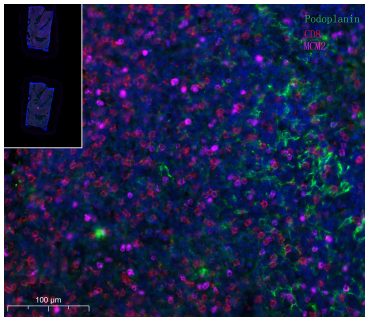
Human lymphoma tissue was stained with Anti-CD8 (ABT304) Antibody



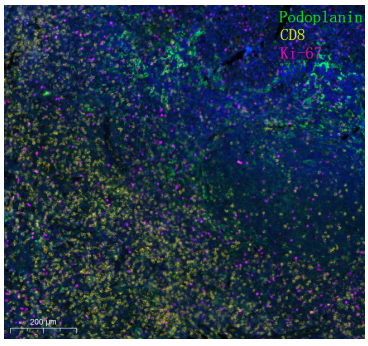
Human lymphoma tissue was stained with Anti-CD8 (ABT304) Antibody



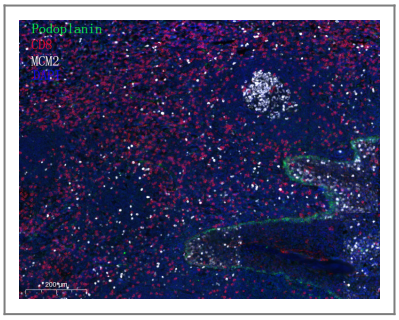
Human tonsil tissue was stained with Anti-CD8 (ABT304) Antibody



Fluorescence multiplex immunohistochemical analysis of Human tonsil tissue (formalin-fixed paraffin-embedded section). Merged staining of Anti-Podoplanin (YM6994), Anti-CD8 (YM6938), Anti-MCM2 (YM6077). The immunostaining was performed on a Leica Biosystems BOND® MAX instrument with an Sextuple-Fluorescence kit (RS0039, Immunoway). The section was incubated in 3 rounds of staining; sequentially for Anti-Podoplanin (YM6994 1:200), Anti-CD8 (YM6938 1:200), Anti-MCM2 (YM6077 1:200).; each using a separate fluorescent tyramide signal amplification system. EDTA based antigen retrieval (Leica Biosystems BOND® Epitope Retrieval Solution 2, pH 9.0, 20 minutes) was used in between rounds of tyramide signal amplification to remove the antibody from the previous round, to avoid any cross-reactivity. DAPI (dark blue) was used as a nuclear counter stain. Microscopy and pseudocoloring of individual dyes was performed using a Slideviewer Imaging System (3D histech).



Fluorescence multiplex immunohistochemical analysis of Human tonsil tissue (formalin-fixed paraffin-embedded section). Merged staining of Anti-Podoplanin (YM6994), Anti-CD8 (YM6938), Anti-Ki-67 (YM6812). The immunostaining was performed on a Leica Biosystems BOND® MAX instrument with an Sextuple-Fluorescence kit (RS0039, Immunoway). The section was incubated in 3 rounds of staining; sequentially for Anti-Podoplanin (YM6994 1:200), Anti-CD8 (YM6938 1:200), Anti-Ki67 (YM6812 1:200).; each using a separate fluorescent tyramide signal amplification system. EDTA based antigen retrieval (Leica Biosystems BOND® Epitope Retrieval Solution 2, pH 9.0, 20 minutes) was used in between rounds of tyramide signal amplification to remove the antibody from the previous round, to avoid any cross-reactivity. DAPI (dark blue) was used as a nuclear counter stain. Microscopy and pseudocoloring of individual dyes was performed using a Slideviewer Imaging System (3D histech).



Fluorescence multiplex immunohistochemical analysis of Human tonsil tissue (formalin-fixed paraffin-embedded section). Merged staining of Anti-Podoplanin (YM6994), Anti-CD8 (YM6938), Anti-MCM2 (YM6077). The immunostaining was performed on a Leica Biosystems BOND® MAX instrument with an Sextuple-Fluorescence kit (RS0039, Immunoway). The section was incubated in 3 rounds of staining; sequentially for Anti-Podoplanin (YM6994 1:200), Anti-CD8 (YM6938 1:200), Anti-MCM2 (YM6077 1:200).; each using a separate fluorescent tyramide signal amplification system. EDTA based antigen retrieval (Leica Biosystems BOND® Epitope Retrieval Solution 2, pH 9.0, 20 minutes) was used in between rounds of tyramide signal amplification to remove the antibody from the previous round, to avoid any cross-reactivity. DAPI (dark blue) was used as a nuclear counter stain. Microscopy and pseudocoloring of individual dyes was performed using a Slideviewer Imaging System (3D histech).

Contact information

Orders:	order@immunoway.com
Support:	tech@immunoway.com
Telephone:	408-747-0189 (USA) 400-8787-807(China)
Website:	http://www.immunoway.com
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information: **CD8 a (ABT304) IHC kit**