

Datasheet for ABIN3043499

## anti-CD8 alpha antibody (AA 22-187)



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### Overview

Quantity:	100 µg
Target:	CD8 alpha (CD8A)
Binding Specificity:	AA 22-187
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD8 alpha antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB)

### Product Details

Purpose:	Anti-CD8 alpha/CD8A Antibody Picoband®
Immunogen:	E.coli-derived human CD8 alpha recombinant protein (Position: S22-A187). Human CD8 alpha shares 49% and 47% amino acid (aa) sequence identity with mouse and rat CD8 alpha, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-CD8 alpha/CD8A Antibody Picoband® (ABIN3043499). Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

## Product Details

Purification: Immunogen affinity purified.

## Target Details

Target: CD8 alpha (CD8A)

Alternative Name: CD8A ([CD8A Products](#))

Background: Synonyms: T-cell surface glycoprotein CD8 alpha chain, T-lymphocyte differentiation antigen T8/Leu-2, CD8a, CD8A, MAL,  
Tissue Specificity: Brain.  
Background: The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. It is mapped to 2p11.2. The CD8 antigen, acting as a coreceptor, and the T-cell receptor on the T lymphocyte recognize antigen displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. This gene also encodes the CD8 alpha chain isoforms.  
Sequence Similarities: Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Molecular Weight: 55 kDa

Gene ID: 925

UniProt: [P01732](#)

Pathways: [TCR Signaling](#)

## Application Details

Application Notes: Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human  
Western blot, 0.1-0.5 µg/mL, Human  
1. Bowcock, A. M., Kavathas, P., Margolskee, R. F., Herzenberg, L., Cavalli-Sforza, L. L. An RFLP associated with pcDLeu2-14, a human T-cell differentiation antigen CD8 (Leu2) cDNA mapped to 2p12. Nucleic Acids Res. 14: 7817 only, 1986. 2. "Entrez Gene: CD8A CD8a molecule"

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

## Publications

Product cited in:	<p>Xu, Chen, Zhao, Huang, Duan, Tong, Zhang, Li, Chang, Chen: "The CD8<math>\alpha</math> gene in duck (Anatidae): cloning, characterization, and expression during viral infection." in: <b>Molecular biology reports</b>, Vol. 42, Issue 2, pp. 431-9, (2015) (<a href="#">PubMed</a>).</p> <p>Xu, Tan, Wang, Wang, Li, Wu, Chen, Wu, Tan: "Elevated survivin expression in peripheral blood mononuclear cells is central to collateral formation in coronary chronic total occlusion." in: <b>International journal of molecular medicine</b>, Vol. 35, Issue 6, pp. 1501-10, (2015) (<a href="#">PubMed</a>).</p> <p>Zhang, Chen, Lao, Huang: "Effect of Hejie decoction on T cell immune state of chronic hepatitis B patients." in: <b>World journal of gastroenterology</b>, Vol. 10, Issue 10, pp. 1436-9, (2005) (<a href="#">PubMed</a>).</p>
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Western Blotting

**Image 1.** Anti- CD 8 alpha Picoband antibody, Western blotting All lanes: Anti CD 8 alpha at 0.5ug/ml Lane 1: JURKAT Whole Cell Lysate at 40ug Lane 2: RAJI Whole Cell Lysate at 40ug Lane 3: HL-60 Whole Cell Lysate at 40ug Lane 4: A549 Whole Cell Lysate at 40ug Lane 5: COLO320 Whole Cell Lysate at 40ug Lane 6: HELA Whole Cell Lysate at 40ug Predicted bind size: 26KD Observed bind size: 55KD

Western Blotting

**Image 2.** Anti- CD 8 alpha Picoband antibody, Western blotting All lanes: Anti CD 8 alpha at 0.5ug/ml WB: Recombinant Human CD 8 alpha Protein 0.5ng Predicted bind size: 29KD Observed bind size: 29KD

Immunohistochemistry

**Image 3.** IHC(P): Human Tonsil Tissue