

CD4 Recombinant Antibody [ST0488] - Rat IgG1 (Chimeric) - BSA and Azide free

HA610453



Product Type:	Recombinant Chimeric, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 51 kDa
Clone number:	ST0488

Description: The T cell receptor (TCR) is a heterodimer composed of either α and β or γ and δ chains. CD3 chains and the CD4 or CD8 co-receptors are also required for efficient signal transduction through the TCR. The TCR is expressed on T helper and T cytotoxic cells that can be distinguished by their expression of CD4 and CD8; T helper cells express CD4 proteins and T cytotoxic cells display CD8. CD4 is also expressed on cortical cells, mature medullary thymocytes, microglial cells and dendritic cells. CD4 (also designated T4 and Leu 3), is a membrane glycoprotein that contains four extracellular immunoglobulin-like domains. The TCR in association with CD4 can bind class II MHC molecules presented by the antigen-presenting cells. The CD4 protein functions by increasing the avidity of the interaction between the TCR and an antigen-class II MHC complex. An additional role of CD4 is to function as a receptor for HIV.

Immunogen: Recombinant protein within Human CD4 aa 196-416 / 458.

Positive control: THP-1 (Human acute monoclastic leukemia cell) cell lysate, U-937 (Human acute monocytic leukemia cell) cell lysate.

Subcellular location: Cell membrane.

Database links: SwissProt: P01730 Human

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at 2-8°C. Avoid freeze.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail: support@huabio.cn

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

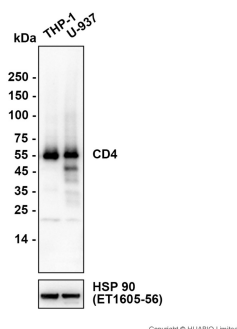


Fig1: This data was developed using HA601671, the same antibody clone in a different buffer formulation.

Western blot analysis of CD4 on different lysates with Rat anti-CD4 antibody (HA601671) at 1/5,000 dilution.

Lane 1: THP-1 (Human acute monoclastic leukemia cell) cell lysate

Lane 2: U-937 (Human acute monocytic leukemia cell) cell lysate

Lysates/proteins at 20 µg/Lane.

Exposure time: 1 minute; ECL: K1803

Blocking: 5% NFDM/TBST, 1 hour at room temperature

Primary antibody: HA601671, 1/5,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

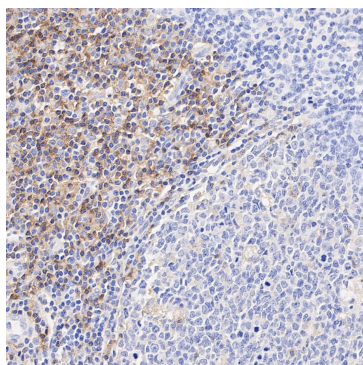
Secondary antibody: Goat anti-Rat IgG-HRP (HA1023), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

Predicted band size: 51 kDa

Observed band size: 55 kDa

Fig2: This data was developed using HA601671, the same antibody clone in a different buffer formulation.

Application: Immunohistochemistry (IHC-P)



Species: Human

Tissue: Tonsil

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA601671, 1/2,000, 1 hour at room temperature.

Secondary antibody: HA1023, 20 minutes at room temperature.

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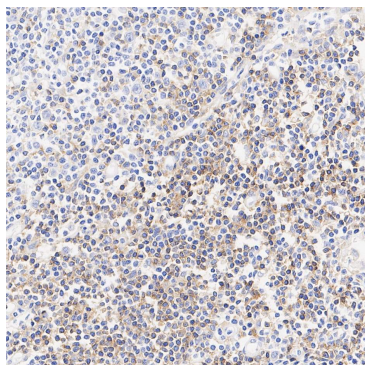


Fig3: This data was developed using HA601671, the same antibody clone in a different buffer formulation.

Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Lymph nodes

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA601671, 1/500, 1 hour at room temperature.

Secondary antibody: HA1023, 20 minutes at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Kim EJ et al. Costimulation blockade alters germinal center responses and prevents antibody-mediated rejection. *Am J Transplant* 14:59-69 (2014).
2. Liu XD et al. Resistance to Antiangiogenic Therapy Is Associated with an Immunosuppressive Tumor Microenvironment in Metastatic Renal Cell Carcinoma. *Cancer Immunol Res* 3:1017-29 (2015).

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