

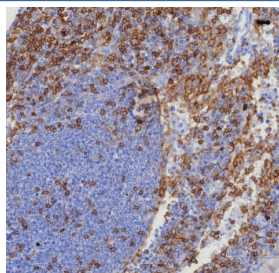
## Recombinant CD4 Antibody [clone CD4/8203R] (V4262)

Catalog No.	Formulation	Size
V4262-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4262-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4262SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

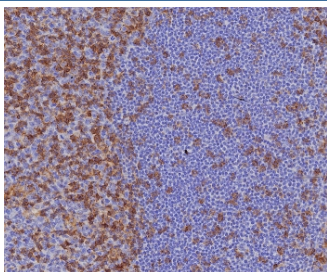
Recombinant **RABBIT MONOCLONAL**

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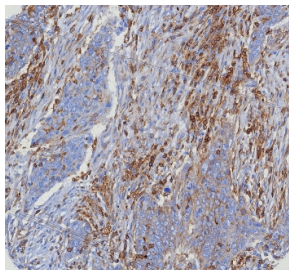
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Recombinant Rabbit Monoclonal
<b>Isotype</b>	Rabbit IgG, kappa
<b>Clone Name</b>	CD4/8203R
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	P01730
<b>Localization</b>	Cell surface
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT Western Blot : 2-4ug/ml
<b>Limitations</b>	This recombinant CD4 antibody is available for research use only.



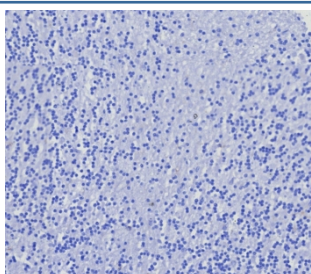
IHC staining of FFPE human tonsil tissue with recombinant CD4 antibody (clone CD4/8203R) at 2ug/ml. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



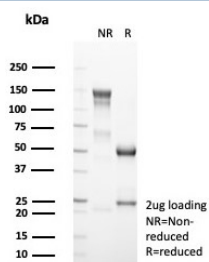
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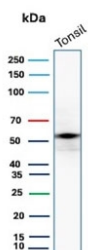
IHC staining of FFPE human bladder cancer pT24 with recombinant CD4 antibody (clone CD4/8203R) at 2ug/ml. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Negative control: IHC testing of FFPE human brain tissue with recombinant CD4 antibody (clone CD4/8203R) at 2ug/ml. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant CD4 antibody (clone CD4/8203R) as confirmation of integrity and purity.



Western blot testing of human tonsil tissue lysate with recombinant CD4 antibody. Expected molecular weight: 50-55 kDa.

## Description

Recognizes a protein of 55kDa, identified as CD4. It is a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This protein is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. The majority of peripheral T-cell lymphomas are derived from the T-helper/regulatory cell subset so that most mature T-cell neoplasms are CD4+/CD8-. Anti-CD4 is used in the immunohistochemical staining of lymphoproliferative disorders to evaluate tumors with CD4 aberrant expression.

## **Application Notes**

Optimal dilution of the recombinant CD4 antibody should be determined by the researcher.

## **Immunogen**

A recombinant partial protein sequence (within amino acids 200-400) from the human protein was used as the immunogen for the recombinant CD4 antibody.

## **Storage**

Aliquot the recombinant CD4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.