

TCR alpha Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11031**Specification**

TCR alpha Antibody - Product Information

Application	WB, IHC, IP
Primary Accession	Q6ISU1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	29266

TCR alpha Antibody - Additional Information**Gene ID** 171558

Application & Usage	Western blotting (0.5-4 µg/ml). Based on researcher's feedback, it can also be used in immunoprecipitation (10-20 µg/ml); and Immunohistochemistry (15-25 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes TCR α in human sample, and to a lesser extent to mouse and rat samples. Jurkat cell lysate can be used as a positive control.
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Other Names

T cell antigen receptor, T cell receptor alpha, TCRA, TCRD

Target/Specificity

TCRa

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.2 mg/ml) immunoaffinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

TCR alpha Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TCR alpha Antibody - Protein Information

Name PTCRA ([HGNC:21290](#))

Function

Component of the pre-T-cell receptor complex (composed of PTCRA, TCRB and the CD3 complex) that has a crucial role in early T- cell development, particularly alpha-beta T cell differentiation.

Cellular Location

Membrane; Single-pass type I membrane protein. Cell membrane

Tissue Location

Expressed in immature but not mature T-cells. Also found in CD34+ cells from peripheral blood, CD34+ precursors from umbilical cord blood and adult bone marrow

TCR alpha Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TCR alpha Antibody - Images

TCR alpha Antibody - Background

TCR (T cell antigen receptor) recognizes foreign antigens and translates such recognition events into intracellular signals that elicit a change in the cell from a dormant to an activated state. TCR is a heterodimer composed of either α and β or γ and δ chains. The vast majority of circulating T cells (95%) express the α/β heterodimer while roughly 2-5% express the γ/δ heterodimer. CD3 chains and the CD4 or CD8 coreceptors are also required for efficient signal transduction through the TCR.