

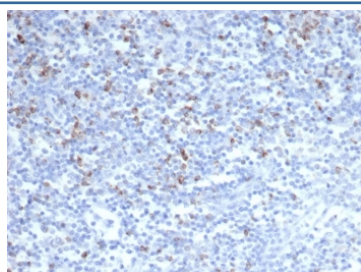
## CTLA4 Antibody [clone CTLA4/6864R] (V4923)

| Catalog No.    | Formulation                                                             | Size   |
|----------------|-------------------------------------------------------------------------|--------|
| V4923-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V4923-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug  |
| V4923SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                          | 100 ug |

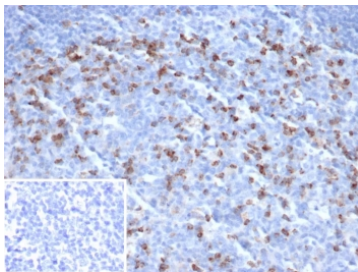
Recombinant **RABBIT MONOCLONAL**

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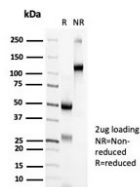
|                           |                                                         |
|---------------------------|---------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                       |
| <b>Species Reactivity</b> | Human                                                   |
| <b>Format</b>             | Purified                                                |
| <b>Clonality</b>          | Recombinant Rabbit Monoclonal                           |
| <b>Isotype</b>            | Rabbit IgG, kappa                                       |
| <b>Clone Name</b>         | CTLA4/6864R                                             |
| <b>Purity</b>             | Protein A/G affinity                                    |
| <b>UniProt</b>            | P16410                                                  |
| <b>Localization</b>       | Cell surface, Secreted                                  |
| <b>Applications</b>       | Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT |
| <b>Limitations</b>        | This CTLA4 antibody is available for research use only. |



IHC staining of FFPE human tonsil tissue with CTLA4 antibody (clone CTLA4/6864R).  
 HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human tonsil tissue with CTLA4 antibody (clone CTLA4/6864R). Inset: PBS used in place of primary Ab (secondary Ab negative control). 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 CTLA4 antibody (clone CTLA4/6864R) as confirmation of integrity and purity.

## Description

Cytotoxic T lymphocyte-associated antigen-4 (CTLA-4) is a member of the CD28 superfamily and is a negative regulator of T cell-mediated immune responses. CTLA-4 expression is induced on the surface of T cells after CD28 binding and activation, and is constitutively expressed on T-regulatory cells, acting as an immune checkpoint inhibitor, downregulating T cell activity. CTLA-4 primarily inactivates T-cell activity by competing with the CD28 costimulatory molecule. CD28 and CTLA-4 share the identical ligands of CD80 and CD86 on antigenpresenting cells; and thus CTLA-4 competes with CD28 function in T-cell survival, proliferation, and recruitment. In particular, CTLA-4 down-modulates CD4+ helper T-cell activity and enhances Treg immunosuppressive functions. CTLA-4 has been shown to play a role in human diseases. CTLA-4 acts as a physiological brake on the activated immune system in order to maintain immune homeostasis. Several suppressive mechanisms for T-cell functions have been attributed to CTLA-4.

## Application Notes

Optimal dilution of the CTLA4 antibody should be determined by the researcher.

## Immunogen

A recombinant fragment of human CTLA4 was used as the immunogen for the CTLA4 antibody.

## Storage

Aliquot the CTLA4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.