



## CD4 Polyclonal Antibody

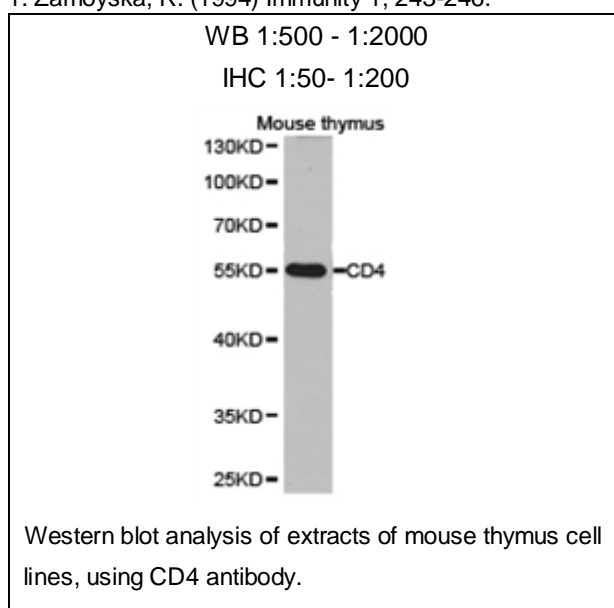
E91549

**Catalog Number:** E91549**Amount:** 100ul

**Background:** Cluster of Differentiation 4 (CD4) is a glycoprotein composed of an amino-terminal extracellular domain (four domains: D1-D4 with Ig-like structures), a transmembrane part and a short cytoplasmic tail. CD4 is expressed on the surface of T helper cells, regulatory T cells, monocytes, macrophages and dendritic cells, and plays an important role in the development and activation of T cells. On T cells, CD4 is the co-receptor for the T cell receptor (TCR), and these two distinct structures recognize the Antigen-Major Histocompatibility Complex (MHC). Specifically, the D1 domain of CD4 interacts with the  $\beta$ 2-domain of the MHC class II molecule. CD4 ensures specificity of the TCR-antigen interaction, prolongs the contact between the T cell and the antigen presenting cell and recruits the tyrosine kinase Lck, which is essential for T cell activation (1).

**Species:** Rabbit**Isotype:** IgG

**Storage/Stability:** Store at -20°C or -80°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonyms:** CD4mut**Immunogen:** Recombinant protein of human CD4**Purification:** Affinity purification**Reactivity:** H**Applications:** WB IHC**Molecular Weight:** 55kDa**Swiss-Prot No. :** P01730**Gene ID:** 920**References:** 1. Zamoyska, R. (1994) Immunity 1, 243-246.**For Research Use Only**