

## Anti-CD8 alpha Antibody (1R433)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	1R433
Purification:	Affinity-chromatography

## Applications

## 1. Western Blot

-Positive WB detected in: MCF-7 whole cell lysate, THP-1 whole cell lysate, PC-3 whole cell lysate, 293 whole cell lysate, HepG2 whole cell lysate, A549 whole cell lysate

-All lanes: CD8A antibody at 1:2000

-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution

-Predicted band size: 26, 22, 31 kDa

-Observed band size: 31 kDa

2. IHC image of TMAH-00229 diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Verified Activity:

3. IHC image of TMAH-00229 diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

4. Immunoprecipitating CD8A in HepG2 whole cell lysate

-Lane 1: Rabbit control IgG instead of TMAH-00229 in HepG2 whole cell lysate.

For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

-Lane 2: TMAH-00229(3µg)+ HepG2 whole cell lysate(500µg)

-Lane 3: HepG2 whole cell lysate (10µg)

Application: ELISA, WB, IHC, IP

Recommended WB:1:500-1:5000; IHC:1:50-1:200; IP:1:200-1:1000.

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

---

### Antigen Details

Immunogen: A synthetic peptide: Human CD8

Antigen Species: Human

Gene ID: 925

Uniprot ID: P01732

Synonyms: CD8  $\alpha$ /CD8A;p32;MAL;Lyt-2;CD8;Leu2;CD8a molecule;CD8a;OKT8 T-cell antigen

Biology Area: Immunology

---

### Research Background

Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class I molecule:peptide complex. The antigens presented by class I peptides are derived from cytosolic proteins while class II derived from extracellular proteins. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class I proteins presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. LCK then initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of cytotoxic T-lymphocytes (CTLs). This mechanism enables CTLs to recognize and eliminate infected cells and tumor cells. In NK-cells, the presence of CD8A homodimers at the cell surface provides a survival mechanism allowing conjugation and lysis of multiple target cells. CD8A homodimer molecules also promote the survival and differentiation of activated lymphocytes into memory CD8 T-cells.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481