

Product datasheet for **TA383949M**

CD8A Rabbit Monoclonal Antibody [Clone ID: R09-8E7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R09-8E7
Applications:	IHC, WB
Recommended Dilution:	WB: 1/1000 IHC: 1/50-1/200
Reactivity:	Human, Hamster
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human CD8
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 26 kDa; Observed MW: 29 kDa
Gene Name:	CD8a molecule
Database Link:	Entrez Gene 925 Human P01732



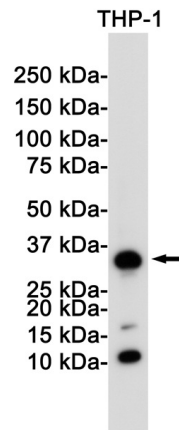
[View online »](#)

Background:

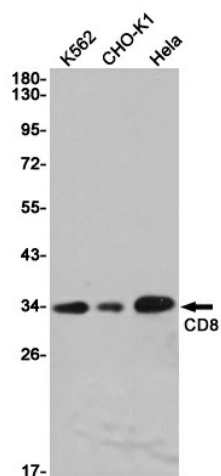
Swiss-Prot Acc.P01732. Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class I molecule:peptide complex. The antigens presented 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.

Synonyms:

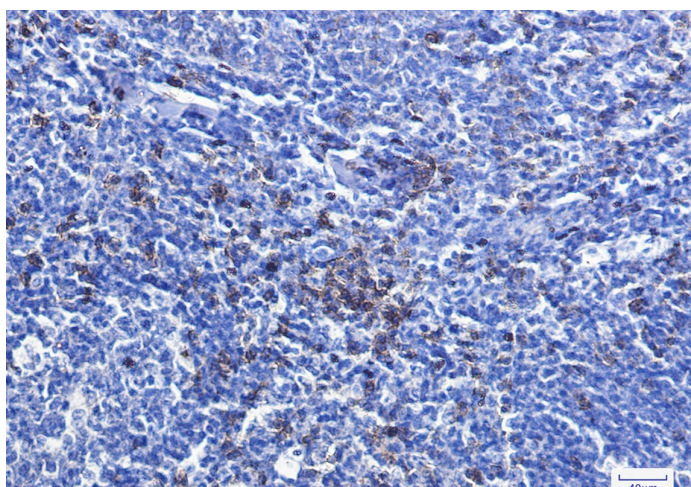
CD8; Leu2; MAL; OTTHUMP00000203721; p32

Product images:


Western blot analysis of CD8 in THP-1 lysates using CD8 alpha antibody.



Western blot analysis of CD8 in K562, CHO-K1, HeLa lysates using CD8 antibody.



Immunohistochemistry analysis of paraffin-embedded Human tonsil using CD8 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.