

Store at
-20°C

CD8 α (D8A8Y) Rabbit mAb

Cell Signaling
TECHNOLOGY®

#85336

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orders@cellsignal.comEntrez-Gene ID #925
UniProt ID #P01732

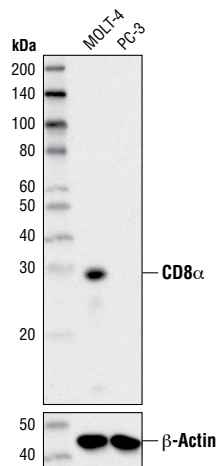
New 03/16

For Research Use Only. Not For Use In Diagnostic Procedures.**Applications**
W, IP, IHC-P, F
Endogenous**Species Cross-Reactivity***
H**Molecular Wt.**
29 kDa**Isotype**
Rabbit IgG**

Background: Cluster of Differentiation 8 (CD8) is a disulphide-linked heterodimer consisting of the unrelated α and β subunits. Each subunit is a glycoprotein composed of a single extracellular Ig-like domain, a polypeptide linker, a transmembrane part and a short cytoplasmic tail. On T cells, CD8 is the coreceptor for the T cell receptor (TCR), and these two distinct structures recognize the Antigen-Major Histocompatibility Complex (MHC). Specifically, the Ig-like domain of CD8 α interacts with the $\alpha 3$ -domain of the MHC class I molecule. CD8 ensures specificity of the TCR-antigen interaction, prolongs the contact between the T cell and the antigen presenting cell, and the α chain recruits the tyrosine kinase Lck, which is essential for T cell activation (1).

Specificity/Sensitivity: CD8 α (D8A8Y) Rabbit mAb recognizes endogenous levels of total CD8 α protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CD8 α protein.

Background References:(1) Zamoyska, R. (1994) *Immunity* 1, 243-46.

Western blot analysis of extracts from MOLT-4 and PC-3 cells using CD8 α (D8A8Y) Rabbit mAb (upper) and β -Actin (D6A8) Rabbit mAb #8457 (lower).

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C . Do not aliquot the antibody.

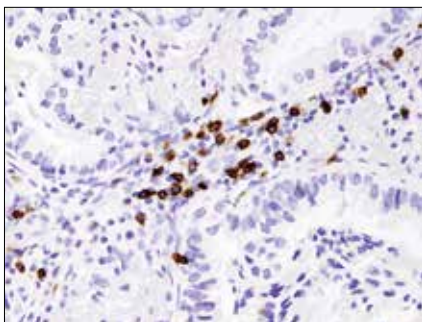
***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

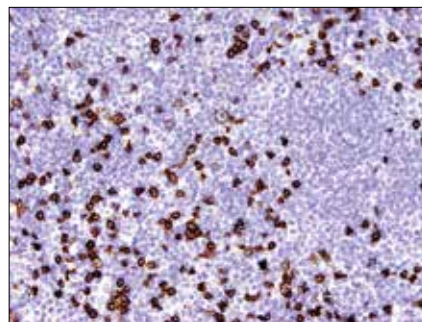
Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:100
Immunohistochemistry (Paraffin)	1:200†
Unmasking buffer:	SignalStain® EDTA Unmasking Solution (10X) #14747
Antibody diluent:	SignalStain® Antibody Diluent #8112
Detection reagent:	SignalStain® Boost (HRP, Rabbit) #8114
†Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.	
Flow Cytometry	1:50

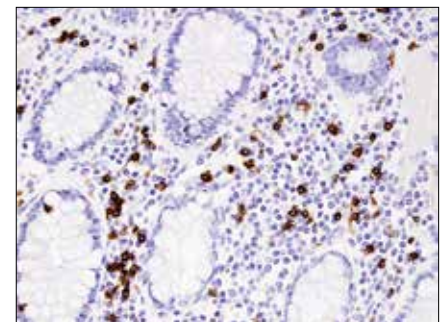
For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com



Immunohistochemical analysis of paraffin-embedded human lung carcinoma using CD8 α (D8A8Y) Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded human lymphoma using CD8 α (D8A8Y) Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded human Crohn's diseased colon using CD8 α (D8A8Y) Rabbit mAb.

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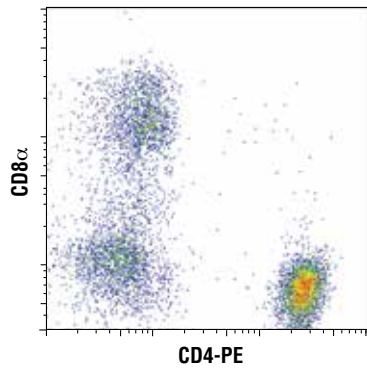
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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected **Species** enclosed in parentheses are predicted to react based on 100% homology.



Flow cytometric analysis of human whole blood using CD8α (D8A8Y) Rabbit mAb co-stained with CD4-PE, showing a distinct CD8α positive population with no cross reactivity to CD4 positive cells. Anti-rabbit IgG (H+L), F(ab)₂ Fragment (Alexa Fluor® 647 Conjugate) #4414 was used as a secondary antibody.

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