

#70306 Store at -20C

## CD8 $\alpha$ (C8/144B) Mouse mAb



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<b>Applications:</b> IHC-P	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Mouse IgG1	<b>UniProt ID:</b> #P01732	<b>Entrez-Gene Id:</b> 925
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<b>Product Usage Information</b>	<b>Application</b> Immunohistochemistry (Paraffin)	<b>Dilution</b> 1:100 - 1:400
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	For a carrier free (BSA and azide free) version of this product see product #90257. CD8 $\alpha$ (C8/144B) Mouse mAb recognizes endogenous levels of total CD8 protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CD8 protein.	
<b>Background</b>	Cluster of Differentiation 8 (CD8) is a disulphide-linked heterodimer consisting of the unrelated $\alpha$ and $\beta$ 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 $\alpha$ 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 $\alpha$ chain recruits the tyrosine kinase Lck, which is essential for T cell activation (1).	
<b>Background References</b>	1. Zamoyska, R. (1994) <i>Immunity</i> 1, 243-46.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>IHC-P:</b> Immunohistochemistry (Paraffin)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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