

## Product Datasheet

### CD8A Antibody (orb2640500)

<b>Description</b>	CD8 is a cell surface receptor expressed either as a heterodimer with the beta chain or as a homodimer. A majority of thymocytes and a subpopulation of mature Tcells and NK cells express CD8a. It binds to MHC class 1 and through its association with protein tyrosine kinase p56lck plays a role in Tcell development and activation of mature Tcells. For mature Tcells, CD8 and 4 are mutually exclusive, so antibody to CD8 is generally used in conjunction with antibody to CD4. CD8a antibody is a useful marker for distinguishing helper/inducer T-lymphocytes, and most peripheral Tcell lymphomas are CD4+/CD8-. Anaplastic large cell lymphoma is usually CD4+/CD8-, and in T-lymphoblastic lymphoma/leukemia, they are often co-expressed. It is also found in littoral cell angiooma of the spleen.
<b>Species/Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Conjugation</b>	Unconjugated
<b>Tested Applications</b>	ELISA, IHC-P
<b>Immunogen</b>	Human recombinant protein was used as the immunogen for this recombinant CD8A antibody.
<b>Preservatives</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only

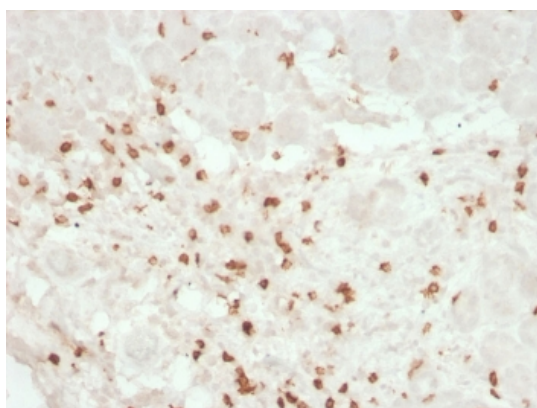
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<b>Application notes</b>	The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the recombinant CD8A antibody to be titrated up or down for optimal performance.1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
<b>Formula</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clonality</b>	Recombinant
<b>Clone Number</b>	rC8/468
<b>Antibody Type</b>	Primary Antibody
<b>Purity</b>	Protein G affinity chromatography
<b>Uniprot ID</b>	<b>P01732</b>
<b>Hazard Information</b>	This recombinant CD8A antibody is available for research use only.
<b>Dilution Range</b>	ELISA: 2-4ug/ml (order BSA/azide-free format),Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
<b>Expiration Date</b>	12 months from date of receipt.



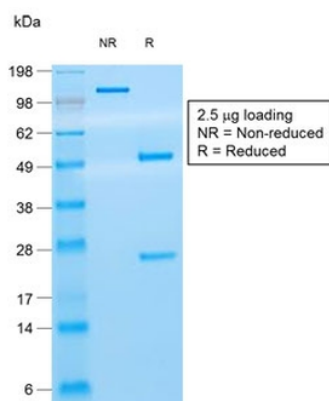
IHC testing of FFPE human colon tissue with recombinant CD8A antibody (clone rC8/468). Required HIER: boil tissue sections in pH9 EDTA for 10-20 min followed by cooling at RT for 20 min.

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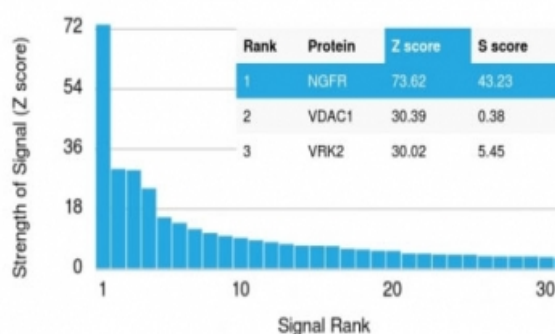
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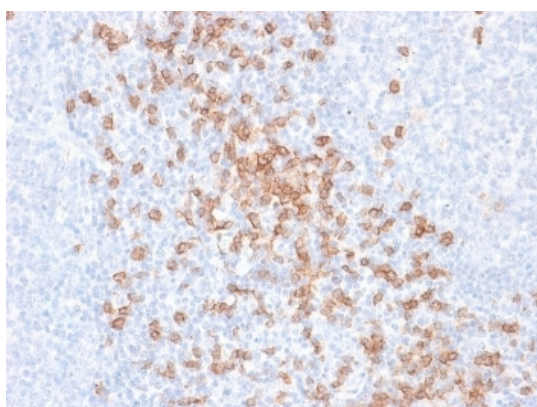


SDS-PAGE analysis of purified, BSA-free recombinant CD8A antibody (clone rC8/468) as confirmation of integrity and purity.

### Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19,000 full-length human proteins using recombinant CD8A antibody (clone rC8/468). These results demonstrate the foremost specificity of the rC8/468 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



IHC testing of FFPE human tonsil tissue with recombinant CD8A antibody (clone rC8/468). Required HIER: boil tissue sections in 10mM citrate buffer, pH6.0, for 10-20 min followed by cooling at RT for 20 min.

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