

## Datasheet: HCA144A

<b>Description:</b>	HUMAN ANTI HUMAN CD127
<b>Specificity:</b>	CD127
<b>Other names:</b>	IL-7R
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD11590
<b>Isotype:</b>	HuCAL Fab bivalent
<b>Quantity:</b>	50 µg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			1/10 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting		▪		
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**(1)HCA144 has been demonstrated to function in Flow Cytometry, however Bio-Rad recommend the use of clone 11592 (HCA145) which demonstrates stronger staining.**

### Target Species

Human

### Product Form

A bivalent human recombinant Fab selected from the HuCAL® phage display library, expressed in *E. coli*. This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a DYKDDDDK tag and a double extended Strep-tag at the C-terminus of the antibody heavy chain. This antibody is supplied lyophilized.

### Reconstitution

Reconstitute with 0.5 ml distilled water

<b>Preparation</b>	StrepTactin affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	Ig concentration 0.1 mg/ml after reconstitution
<b>Immunogen</b>	Recombinant human IL-7 R alpha/CD127/Fc chimera
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P16871</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3575</a>    IL7R    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_10612594
<b>Specificity</b>	<p><b>Human anti Human CD127 antibody, clone AbD11590</b> recognizes the alpha chain of the human interleukin-7 receptor (IL-7R), which is also known as CD127. CD127 is a ~65-75 kDa transmembrane glycoprotein that associates with the interleukin-2 receptor gamma chain to form the functional high affinity IL-7 receptor. CD127 is expressed on lymphoid precursors in the bone marrow, pro-B cells, a subpopulation of thymocytes, T-cells and monocytes. CD127 is the specific receptor for IL-7 and the IL-7 receptor plays a critical role in lymphoid development.</p>
<b>ELISA</b>	Due to the presence of bovine serum albumin (BSA), this antibody is unsuitable for use as a capture reagent in sandwich ELISA applications. This product is also available without BSA, <a href="#">please enquire</a> .
<b>Histology Positive Control Tissue</b>	Human tonsil
<b>Storage</b>	<p>Prior to reconstitution store at +4°C.  After reconstitution store at -20°C.  Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of reconstitution
<b>Acknowledgements</b>	Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany.
<b>Health And Safety</b>	Material Safety Datasheet documentation #10041 available at:

<b>Information</b>	10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
<b>Licensed Use</b>	For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a>

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Synthetic Peptide DYKDDDDK TAG (AHP1074...) [HRP](#)

Mouse Anti Synthetic Peptide STREP-TAG IMMO (MCA2488...) [Purified](#)

### Recommended Negative Controls

[HuCAL Fab-dHLX-FSx2 NEGATIVE CONTROL \(HCA104A\)](#)

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