

## Datasheet: HCA140A

<b>Description:</b>	HUMAN ANTI HUMAN INTERLEUKIN-33
<b>Specificity:</b>	IL-33
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	7786
<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			▪	
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.

<b>Target Species</b>	Human
<b>Product Form</b>	A bivalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library, expressed in <i>E. coli</i> . This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a myc-tag (EQKLISEEDL) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied lyophilised.
<b>Reconstitution</b>	Reconstitute with 0.5ml distilled water
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	0.1 mg/ml
<b>Immunogen</b>	Human IL33-N1 fusion protein.

**External Database  
Links**

**UniProt:**

[O95760](#)   [Related reagents](#)

**Entrez Gene:**

[90865](#)   IL33   [Related reagents](#)

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**Synonyms**

C9orf26, IL1F11, NFHEV

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**Specificity**

**Human anti Human Interleukin-33 antibody, clone 7786** specifically recognizes Human Interleukin-33 (IL-33), a cytokine formerly known as NF-HEV (Nuclear factor from high endothelial venules).

IL-33 belongs to the IL-1 super family which signals through interaction with the ST2 and Toll-interleukin 1 (IL-1) receptors, and is known to act as an immunoregulator of T helper 2 (Th2) cell cytokine synthesis.

IL-33 is abundantly expressed in high endothelial venules and found in tonsils, peyers patches and mesenteric lymph nodes.

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**ELISA**

This product may be used in an indirect ELISA or as a capture antibody in a sandwich ELISA together with [AHP1482B](#) as the detection reagent.

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**Further Reading**

1. Joshi, A.D. *et al.* (2010) Interleukin-33 contributes to both M1 and M2 chemokine marker expression in human macrophages. [BMC Immunol. 11: 52.](#)

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**Storage**

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.

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**Shelf Life**

12 months from date of reconstitution.

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**Acknowledgements**

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.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at

<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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**Technical Advice**

Recommended protocols and further information about HuCAL recombinant antibody

technology can be found in the [HuCAL Antibodies Technical Manual](#)

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## Related Products

### Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [ALEXA FLUOR® 488](#), [ALEXA FLUOR® 647](#), [Alk. Phos.](#), [Biotin](#), [FITC](#)

Mouse Anti Human C-MYC (MCA2200...)

[ALEXA FLUOR® 488](#), [ALEXA FLUOR® 647](#), [Alk. Phos.](#), [Biotin](#), [FITC](#), [HRP](#), [RPE](#)

## Recommended Negative Controls

[HuCAL Fab-dHLX-MH NEGATIVE CONTROL \(HCA052\)](#)

[HuCAL Fab-dHLX-MH NEGATIVE CONTROL \(HCA052\)](#)

[HuCAL Fab-dHLX-MH NEGATIVE CONTROL \(HCA052\)](#)

[HuCAL Fab-dHLX-MH NEGATIVE CONTROL \(HCA052\)](#)

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