

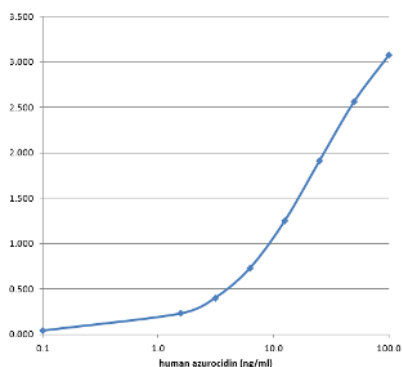
**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	Azurocidin, Human, clone z6733		
<b>Catalog number</b>	HM2311		
<b>Lot number</b>	-	<b>Expiry date</b>	-
<b>Volume</b>	1 ml	<b>Amount</b>	100 µg
<b>Formulation</b>	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	<b>Concentration</b>	100 µg/ml
<b>Host Species</b>	Mouse IgG1	<b>Conjugate</b>	None
<b>Endotoxin</b>	N.A.	<b>Purification</b>	Protein G
<b>Storage</b>	4°C		

**Application notes**

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes						•		
No								•
N.D.	•	•	•	•	•		•	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot



IA: Immuno assay with HM2310, clone z6721 used as capture antibody and HM2311, clone z6733 as detection antibody. HM2311 was biotinylated for this experiment.

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- IA: Antibody z6733 can be used both as detection and capture antibody.

**General Information**
**Description**

The monoclonal antibody z6733 recognizes azurocidin (also called heparin-binding protein (HBP) or cationic antimicrobial protein of 37 Kda (CAP37). Azurocidin is an inactive homolog of serine proteinases residing in granulocytes. Initially it was thought to have only activity against gram-negative bacteria. Later it was also found to act against gram-positive bacteria and *C.albicans*. Azurocidin is considered a family member of polymorphonuclear leukocytes- derived antimicrobial proteins like defensins, LL-37 and lysozyme. Azurocidin has been recognized as a player in the activation and modulation of the immune response and may act to alarm the immune system. The cationic domain at one side of the protein is essential for its antimicrobial activity. It is stored in azurophil granules as well as secretory granules and as a result partly released at early stage of extravasation. Azurocidin is involved in chemotaxis and activation of monocytes, cytokine release and phagocytosis leading to more efficient bacterial clearance. The primary targeted environment of azurocidin are cells in the bloodstream, that is the endothelial lining, and the extravascular surroundings. The interaction of azurocidin with leucocytes is mediated via  $\beta$ 2-intergrins. High plasma levels of azurocidin might help with the identification of patients which are at risk in developing sepsis.

**Aliases**

Cationic antimicrobial peptide CAP37, Heparin-binding protein, HBP

<b>Gene</b>	Gene name: AZU1
<b>Storage&amp;stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
<b>Precautions</b>	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

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We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC  
Robbert Zwinkels

Date  
16/03/2018

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).