



# CERTIFICATE OF MATERIAL ORIGIN

Date: 10/27/2017

Revision: 02

**Product:** ICAM2, Human, Solution

<b>Supplier</b>	Advanced BioMatrix, Inc.
<b>Supplier Catalog No.</b>	5107
<b>Supplier Location</b>	California, USA
<b>Name/Grade</b>	ICAM2, Human, Solution
<b>Animal Origin (including human)</b>	
-Animal Species	Not applicable
-Tissue Origin	Not applicable
-County of Origin	Not applicable
<b>Non-animal Source of Origin</b>	
-Country of Origin	United States
<b>Animal Origin Material Adventitious Agent Risk Reduction Steps</b>	Not applicable
<b>Method of Manufacturing</b>	Recombinant and protein expression
<b>Briefly describe Method of Manufacturing</b>	Full-length extracellular domain of human ICAM2 gene (25-223 aa) was constructed with 29 N-terminal T7/His tag and expressed in E. coli as inclusion bodies. The final product was refolded using a unique "temperature shift inclusion body refolding" technology and chromatographically purified.

The above information has been completed by an authorized representative of management and is complete and correct to my knowledge.

**President**

**October 27, 2017**

**Corporate Headquarters**  
P.O. Box 502403  
San Diego, CA 92150-2403

(800) 883-8220 (760) 929-0755  
(510) 217-3452 Fax  
[www.advancedbiomatrix.com](http://www.advancedbiomatrix.com)

**Manufacturing Facility**  
5930 Sea Lion Place, Ste. 100  
Carlsbad, CA 92010