

## LIFECODES® Non-HLA Antibody Kit

SEE BEYOND THE LIMITS OF YOUR EXISTING WORKFLOW AND EXPAND YOUR TEST CAPABILITIES WITH IMMUCOR'S NON-HLA ANTIBODY KIT.

Multiple studies<sup>1, 2</sup> have demonstrated the impact of Non-HLA antibodies in transplant rejection. Immucor believes in making new tools available, like our LIFECODES® Non-HLA Antibody Kit, as it is critical to advancing the understanding and role of non-HLA in transplant rejection. We invite you to See Beyond the Limits of your current laboratory testing and explore new horizons.

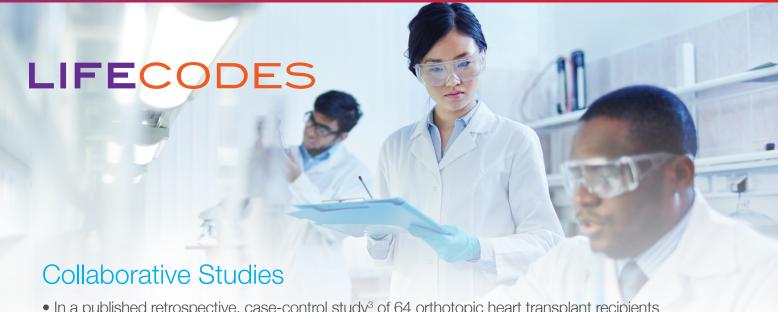


## **LIFECODES® Non-HLA Antibody Kit**

## Be a pioneer in next generation antibody testing

- · Low antigen background allows for easy assignment of positive and negative results
- Same workflow as other assays in the Immucor antibody product portfolio to maximize productivity
- · Vacuum manifold wash technique reduces total hands-on time, operator variation, and contamination risk

Product Code	Description	Size	
265500R	LIFECODES Non-HLA Antibody Kit*	24 assays per kit	
Antigen	Gene Name	Exclusive to Immuco Luminex® Assay	
ACTIN	Actin	✓	
AGRN APOL2	Agrin Apolipoprotein L2	<b>✓</b>	
ARHGDIB	ARHGDIB	·	
ATP5B	ATP Synthase F1 Subunit Beta	<b>✓</b>	
CCP	Cyclic Citrullinated Peptide	✓	
CD40	CD40 molecule	<b>✓</b>	
CGB5	Chorionic Gonadotropin Subunit Beta 5	<u> </u>	
COLLAGEN I	Collagen I		
COLLAGEN II	Collagen II		
COLLAGEN IV	Collagen III Collagen IV		
COLLAGEN V	Collagen V		
COLLAGEN VI	Collagen VI	<b>→</b>	
CSF2	Colony stimulating factor 2	<b>✓</b>	
CXCL11	C-X-C Motif Chemokine Ligand 11		
CXCL9	C-X-C Motif Chemokine Ligand 9		
DEXI	Dexamethasone-induced transcript	<b>✓</b>	
EMCN	Endomucin	<b>✓</b>	
ENO1	Alpha-enolase		
FAS	Fas Cell Surface Death Receptor	<b>✓</b>	
FIBRONECTIN1 FLRT2	Fibronectin 1 Fibronectin Leucine Rich Transmembrane Protein 2		
GAPDH	Glyceraldehyde-3-phosphate Dehydrogenase		
GDNF	Glial Cell Derived Neurotrophic Factor		
GSTT1	Glutathione S-Transferase Theta-1		
HARS	Jo-1	<b>✓</b>	
HSPB1	Heat Shock Protein Beta-1	<b>✓</b>	
Human Transferrin	Transferrin	<b>✓</b>	
ICAM1	Intracellular Adhesion Molecule 1	<u> </u>	
IFNG	Interferon Gamma		
IL21	Interleukin 21	<u> </u>	
IL8	Interleukin 8, CXCL8	<b>Y</b>	
KRT18	Cytokeratin 18	<b>∨</b>	
KRT8 LGALS3	Cytokeratin 8 Galectin 3	<u> </u>	
LGALS8	Galectin 8	<u> </u>	
LMNA	Lamin-A/C		
LPHN1	Latrophilin 1	<b>✓</b>	
MYOSIN	Myosin		
NCL	Nucleolin		
P2RY11	Purinergic Receptor P2Y11	<b>✓</b>	
PECR	Peroxisomal Trans-2-enoyl-CoA Reductase		
PLA2R1	Phospholipase A2 Receptor 1		
PRKCH	Protein kinase C, Eta		
PRKCZ PTPRO	Protein kinase C, Zeta Receptor-type Tyrosine-protein Phosphatase U	<b>✓</b>	
ROR1	Receptor Tyrosine Kinase- Like Orphan Receptor 1	<u> </u>	
SHC3	SHC Adaptor Protein 3	·	
SNRPB2	Small Nuclear Ribonucleoprotein Polypeptide B	<b>✓</b>	
SNRPN	Small Nuclear Ribonucleoprotein Polypeptide N	<b>✓</b>	
SSB	Sjogren Syndrome Antigen B	<b>✓</b>	
STAT6	Signal Transducer And Activator Of Transcription 6	<b>✓</b>	
Thyroglobulin	Thyroglobulin	<b>→</b>	
TUBA1B	Tubulin Alpha 1b	·	
TUBB	Tubulin Beta	<b>∨</b>	
TUBULIN	Tubulin	<u> </u>	
VCL VEGFA	Vinculin Vascular Endothelial Growth Factor A	- V	
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• In a published retrospective, case-control study<sup>3</sup> of 64 orthotopic heart transplant recipients transplanted between 1994 and 2014, four antigens were found to be significantly different between AMR (antibody-mediated rejection) patients and non-AMR and increased reactivity to these antigens was associated with graft failure:

· APOL2: Apolipoprotein L2

LMNA: Lamin A/CTUBB: Tubulin Beta

· VIM: Vimentin

• The authors of this study<sup>3</sup> state the results suggest that antibodies to non-HLA are associated with DSA-positive AMR, although their specific role in mediating allograft injury is not yet understood.

• Non-HLA reactivity was enhanced in cases of AMR combined with ACR (acute cellular rejection).

Non-HLA antigen	PRA>10% DSA+ AMR n=18	No AMR n=21	Controls n=94	p-value (PRA>10% DSA+ AMR vs controls)	p-value (PRA>10% DSA+ AMR vs no AMR)
APOL2	6 (33.3)	0 (0)	4 (4.3)	0.0011	0.0057
LMNA	4 (22.2)	0 (0)	6 (6.4)	0.0534	0.0372
TUBB	6 (33.3)	1 (4.8)	3 (3.2)	0.0005	0.0350
VIM	4 (22.2)	0 (0)	3 (3.2)	0.0124	0.0372

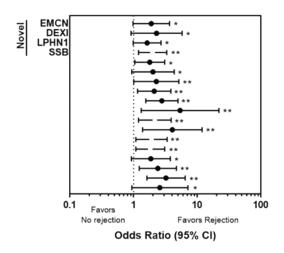
Values presented as n (%)

- A published study<sup>4</sup>, identified 18 Non-HLA antigens are found to be associated with cardiac allograft rejection
  - Four of these are newly described for cardiac:

DEXI: Dexamethasone-induced transcript

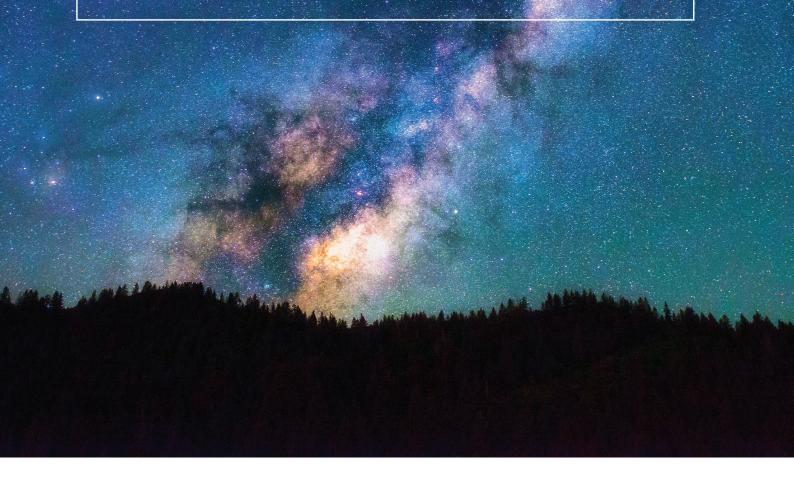
EMCN: Endomucin LPHN1: Latrophilin 1

· SSB: Sjogren Syndrome Antigen B





## Seeing Beyond Limits





To learn more or to set up a demo with one of our Transplant Business Managers, call **855.IMMUCOR** (**855.466.8267**) or visit **www.immucor.com**.

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