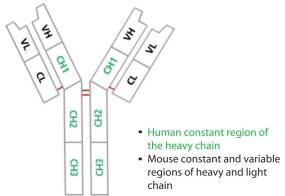


Human Chimeric Monoclonal Antibodies

Technological breakthroughs and innovative technologies continue to shape the in vitro diagnostic field. One of these advances in assay development are chimeric monoclonal antibodies for use as positive controls, or calibrators in IVD kits as an alternative to characterized disease state plasma.

Enzyme-linked immunoassays for the detection of antibodies in patient samples require reference material to determine cut-off values and test assay integrity, and these are then included in the kit as calibrators or positive controls. Most often this reference material consists of pools of disease state serum or plasma, but main drawbacks of these standards are their limited availability and variability, and there are also safety and ethical issues. What is required is a virtually unlimited supply of antibodies with a consistent concentration, specificity and avidity.



Chimeric monoclonal antibodies are produced in transgenic mouse strains in which the sequence for mouse IgG1 Fc region is substituted with the human sequence. After mouse immunization and hybridoma technology, antibodies are

Ordering Information										
36700	Mi-2 humAb IgG	NEW!	0.1 mg							
36600	PCNA humAb IgG	NEW!	0.1 mg							
36500	SRP54 humAb IgG		0.1 mg							
36100 36101	LC1 humAb lgG		0.1 mL 1.0 mL							
36400 36401	LKM1 humAb lgG		0.1 mg 1.0 mg							
36300 36301	PDC-E2 humAb IgG		0.1 mL 1.0 mL							

LC1 humAb lgG	Lot1	HSA anti-IgGMA	P hum lgG	Lot2	• HSA	anti-IgGMA	• hum lgG	Patient Serum	HSA	anti-IgGMA hum IgG
LC 1, Lot 2 LKM 1, Lot 1 LKM 1, Lot 2 PDC - E2, Lot 1 PDC - E2, Lot 2 SLA/LP, Lot 1 SLA/LP, Lot 2	•••••			•••••		0000000	:	•••••		
SLAYLP, LOT 2 OGDC - E2 BCOADC - E2 Sp100 qp210 Nup62						00000				
LKM1 humAb lgG	Lot1	HSA anti-IgGMA	hum IgG	Lot2	HSA		hum IgG	Patient Serum	HSA	anti-lgGMA hum lgG
LC 1, Lot 1 LC 1, Lot 2 LKM 1, Lot 1 LKM 1, Lot 1 PDC - E2, Lot 1 PDC - E2, Lot 2 SLA/LP, Lot 1 SLA/LP, Lot 2 OGDC - E2 BCOADC - E2 Sp100 gp210 Nup62	•		•••••••••	000000	•	000000000000		9000		
PDC-E2 humAb lgG	Lot1	HSA anti-lgGMA	hum lgG	Lot2	HSA	anti-lgGMA	hum lgG	Patient Serum	HSA	anti-lgGMA hum lgG
LC 1, Lot 1 LC 1, Lot 2 LKM 1, Lot 1 LKM 1, Lot 1 PDC - E2, Lot 1 PDC - E2, Lot 2 SLA/LP, Lot 1 SLA/LP, Lot 2 OGDC - E2 BCOADC - E2 BCOADC - E2 Nup62	•••••		••••••••	•••••		0				

Figure: Immunodot analysis using anti-LC1, anti-LKM1 and anti-PDC-E2 human chimeric IgG antibodies and patient samples, showing reactivity with the recombinant liver antigens LC1, LKM1 and PDC-E2. Proteins and controls were printed on nitrocellulose membranes as indicated.

generated that retain a human constant region required for recognition by the anti-human conjugate. These monoclonal antibodies can then be produced using standard cell culture technologies.

So far, DIARECT provided tissue-specific chimeric antibodies for the detection and diagnosis of autoimmune liver diseases (Figure) and SRP54 humAb IgG for myositis. Now the product line is further expanded with the introduction of Mi-2 humAb IgG and PCNA humAb IgG. Additional new products related to autoimmune liver and systemic autoimmune diseases will follow shortly.

References:

Cogné et al. (2013) European Patent N°13305964.2 Invernizzi et al. (2008) World J Gastroenterol. 21:3374-3387

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