



CytoBead[®] ANA/ANA 2

Generic Assays (Manual)

CytoBead[®] ANA: Order no. 8065 | **CytoBead[®] ANA 2:** Order no. 8220

MEDIPAN (Automated)

AKLIDES[®] CytoBead[®] ANA: Order no. 4272 | **AKLIDES[®] CytoBead[®] ANA 2:** Order no. 4272

Patents:

EP 2362222, AU 2011217190, CN 2702421, EP 2208068,
TR 201308237, 200880115751



**New
Combinations**









**New
Possibilities**

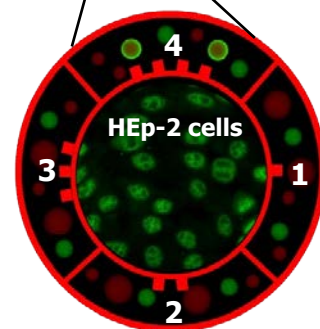
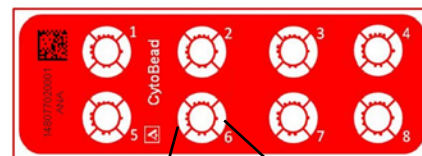
CytoBead[®] ANA / ANA 2

Fast and easy ANA Diagnostics




ANA (Anti-Nuclear Antibodies) are autoantibodies (AAB) which recognize conserved nuclear antigens. ANA show a characteristic staining of nuclear structures with indirect immunofluorescence on human epithelial cells (HEp-2). The confirmation of ANA is done in accordance to the target antigens.

CytoBead[®] ANA / ANA 2

HEp-2 cell pattern	Compartment	Bead (positive)	Quantification	Antigen	Clinical relevance
Homogeneous	3		IU/ml	dsDNA	Systemic lupus erythematosus (SLE)
			U/ml	Scl-70	Marker for progressive systemic sclerosis (PSS)
Speckled	2		U/ml	Sm	Sm antibodies highly specific for SLE; high anti-nRNP titers specific for mixed connective tissue disease (MCTD) together with other ANAs in rheumatoid arthritis (RA), SLE, PSS
			U/ml	nRNP	
	4		U/ml	Ro60/SS-A	Often in primary Sjögren's syndrome, anti-SS-A often in neonatal lupus
			U/ml	Ro52/SS-A	
1		U/ml	La/SS-B		
Centromere	1		U/ml	CENP-B	Marker for CREST syndrome, rarely in diffuse scleroderma and Raynaud's phenomenon



CytoBead[®] ANA

-  Small bead: negative
-  Large bead: negative
-  Reference bead in each compartment

CytoBead[®] ANA 2, Jo-1 microbead replaces CENP-B microbead

Cytoplasmic	1		U/ml	Jo-1	Polymyositis, dermatomyositis
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References

Second generation analysis of antinuclear antibody (ANA) by combination of screening and confirmatory testing.

Scholz J, Grossmann K, Knütter I, Hiemann R, Sowa M, Röber N, Rödiger S, Schierack P, Reinhold D, Bogdanos DP, Meroni PL, Radice A, Conrad K, Roggenbuck D. *Clin Chem Lab Med* 2015, 53(12): 1991-2002.

The CytoBead assay - a novel approach of multiparametric autoantibody analysis in the diagnostics of systemic auto-immune diseases.

Sowa M, Grossmann K, Scholz J, Röber N, Rödiger S, Schierack P, Conrad K, Roggenbuck D, Hiemann R. *J Med Lab* 2014; 38:309-17.

ADVANTAGES of the CytoBead[®] ANA/ANA 2

- Fast diagnosis within only one test
- Screening with standardized HEp-2 cells
- Confirmation of 8 ANA specificities with microbeads



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