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

<table>
<thead>
<tr>
<th>HEP-2 cell pattern</th>
<th>Compart-</th>
<th>Bead (positive)</th>
<th>Quantification</th>
<th>Antigen</th>
<th>Clinical relevance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homogeneous</td>
<td>3</td>
<td>IU/ml</td>
<td>dsDNA</td>
<td>Systemic lupus erythematosus (SLE)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>U/ml</td>
<td>Sci-70</td>
<td>Marker for progressive systemic sclerosis (PSS)</td>
<td></td>
</tr>
<tr>
<td>Speckled</td>
<td>2</td>
<td>U/ml</td>
<td>Sm</td>
<td>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</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>U/ml</td>
<td>hRNP</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>U/ml</td>
<td>Ro60/SS-A</td>
<td>Often in primary Sjögren’s syndrome, anti-SS-A often in neonatal lupus</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>U/ml</td>
<td>Ro52/SS-A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centromere</td>
<td>1</td>
<td>U/ml</td>
<td>CENP-B</td>
<td>Marker for CREST syndrome, rarely in diffuse scleroderma and Raynaud’s phenomenon</td>
<td></td>
</tr>
</tbody>
</table>

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

Cytoplasmic 1 IU/ml Jo-1 Polymyositis, dermatomyositis

References

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

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

**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