CENTOGENE
THE RARE DISEASE COMPANY

CentoArrayCyto®

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CENTOGENE's genome-wide array based solutions enable detection of known and novel structural aberrations such as copy number variations (CNVs), chromosomal imbalances, regions exhibiting loss/absence of heterozygosity (LOH), uniparental isodisomy (UPD) and even low-level mosaicism. With markers targeted at both polymorphic and non-polymorphic regions spread across the genome, analysis of multiple genes associated with wide ranging phenotypes can be performed in a single assay. CENTOGENE's fully automated library preparation platform for CentoArrayCyto® reduces the variability between samples and provides high quality consistent data suitable for diagnostic applications.

CentoArrayCyto® - KEY FEATURES

- Combines copy number markers with single nucleotide polymorphism (SNP) markers at medium to high density to provide highest resolution at broadest coverage
- Detects copy number changes across genome with a resolution down to 25kb
- Confidently detects presence of mosaicism down to 30%
- Compatible with wide range of samples including blood, DNA, fresh and frozen tissues, amniocytes, bone marrow aspirate and even formalin fixed paraffin embedded (FFPE) samples
- An impressive TAT of 15 working days

CentoArrayCyto® is available in HD and 750K format

	CentoArrayCyto® HD	CentoArrayCyto® 750K
FEATURES	High density genome wide array with highest resolution currently available	Medium density cost effective array to determine the chromosomal abnormalities
TOTAL MARKERS	2.6 Million	750,000
NON-POLYMORPHIC	1.9 Million	550,000
POLYMORPHIC	750,000	200,000
RESOLUTION OF CNVS DETECTION	>25kb for copy number loss >200kb for copy number gain	>100kb for copy number loss >200kb for copy number gain
DETECTION OF MOSAICISM	Yes, >30%	Yes, >30%

When to recommend CentoArrayCyto®

- As a first step analysis for cases of mental retardation and/or multiple malformations given that a considerable number of chromosomal rearrangements and CNVs have been implicated in such disorders
- In conjunction with whole exome and whole genome analysis to complement SNV with CNV detection CentoArrayCyto® can be ordered either as a step -wise analysis with WES/WGS or as a part of an attractive combined WES/WGS package
- As a CNV screening for large NGS panels, when sequencing results are negative and single exon resolution analysis not available
- For deletion/duplication analysis of extremely large genes where gross deletions involving large segment of gene, flanking intergenic regions or neighboring genes are frequently reported
- To diagnose uniparental iso-disomy
- CentoArrayCyto® can also be performed as a prenatal diagnostics. In prenatal cases, we highly recommend performing trio analysis of the index and the parents.

Customer Service
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