

FO_MP_001_Untersuchungskatalog

Untersuchungskatalog Molekularpathologie, Institut für Pathologie und Ambulanzzentrum der MHH

1. Klonalitätsanalyse in hämatologischen Neoplasie

IGH (Fr1, Fr2, Fr3)	d	Kapillarelektroph.	AA_MP_NA_013_IGH_Klonalitaet
IGkappa	d	Kapillarelektroph.	AA_MP_NA_014_IGkappa_Klonalitaet
TCR β , γ , δ	d	Kapillarelektroph.	AA_MP_NA_015_TCRB_Klonalitaet AA_MP_NA_016_TCRD_Klonalitaet AA_MP_NA_017_TCRG_Klonalitaet
IGHV-Mutationsst.	pro	PAA-Gel, Sanger-Seq.	AA_MP_NA_002_IGHV_Mutationsstatus

2. Mutationsanalyse einzelner Codons bzw. Exons

BRAF (600)	d, pro, prä	Pyroseq., ggf. dPCR	AA_MP_NA_024_Pyro_BRAF_Codon_600 AA_MP_NA_069_dPCR_BRAF_600
BRAF Ex. 11 + 15	pro, prä	NGS	AA_MP_NA_036_NGS_BRAF_Exon_11_15
CALR Ex. 9	d	NGS	AA_MP_NA_044_NGS_CALR
CBL Ex. 8, 9	d	NGS	AA_MP_NA_045_NGS_CBL
CSF3R Ex. 14, 17	d	NGS	AA_MP_NA_047_NGS_CSF3R
CTNNB1 Ex. 3	d	NGS	AA_MP_NA_037_NGS_CTNNB1_Exon_3
EGFR Ex. 18-21	prä	NGS	AA_MP_NA_038_NGS_EGFR_Exon_18_bis_21
ERBB2/HER2-Mut	pro, prä	NGS	AA_MP_NA_032_NGS_ERBB2_HER2
ESR1-Mut	pro, prä	NGS	AA_MP_NA_031_NGS_ESR1
FLT3 Ex. 14, 15, 20	d, pro	NGS	AA_MP_NA_056_NGS_FLT3
FOXL2 (134)	d	Pyroseq.	AA_MP_NA_025_Pyro_FOXL2_Codon_134
GNAS (201/220)	d	Pyroseq.	AA_MP_NA_026_Pyro_GNAS
H3F3A (27/34)	d	Pyroseq.	AA_MP_NA_027_Pyro_H3F3A
HIST1H3B (27)	d	NGS	AA_MP_NA_057_NGS_HIST1H3B_Codon_27
HRAS (12/13)	d, prä	Pyroseq.	AA_MP_NA_028_Pyro_HRAS
IDH1 (131/132)	d, prä	Pyroseq.	AA_MP_NA_029_Pyro_IDH_1_2
IDH2 (140, 172)	d, prä	Pyroseq.	AA_MP_NA_029_Pyro_IDH_1_2
JAK-2 (617)	d	Pyroseq.	AA_MP_NA_021_Pyro_JAK2_Codon_617
JAK-2 Ex. 12	d	Pyroseq., ggf. Sanger-Seq.	AA_MP_NA_022_Pyro_JAK2_Exon_12

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KIT (816)	d, prä	Pyroseq.	AA_MP_NA_082_Pyro_KIT_cDNA
KIT Ex. 9, 11, 13, 14, 17	d, pro, prä	NGS	AA_MP_NA_039_NGS_KIT
KRAS (12/13)	d, pro, prä	NGS	AA_MP_NA_058_NGS_KRAS_Codon_12_13
MAP2K1 Ex.2, 3, 7	d, pro, prä	NGS	AA_MP_NA_040_NGS_MAP2K1
MED12 Ex. 2	d	Sanger-Seq.	AA_MP_NA_059_Sanger_MED12
MPL (515)	d	NGS	AA_MP_NA_055_NGS_MPL
MYD88 (265)	d	Pyroseq.	AA_MP_NA_020_Pyro_MYD88
NPM1 Ex. 12	d, pro	NGS	AA_MP_NA_041_NGS_NPM1_Exon_12
NRAS (12/13)	d	NGS	AA_MP_NA_064_NGS_NRAS_Codon_12_13
NRAS (61)	d, prä	NGS	AA_MP_NA_065_NGS_NRAS_Codon_61
PDGFRa Ex. 12, 14, 18	d, pro, prä	NGS	AA_MP_NA_042_NGS_PDGFRa
PIK3CA Ex. 9 + 20	d, prä	NGS	AA_MP_NA_033_NGS_PIK3CA
RAS erw.	pro, prä	NGS	AA_MP_NA_043_NGS_RAS_erweitert
RET (918)	d	NGS	AA_MP_NA_072_NGS_RET_Codon_918
RhoA (17)	d	NGS	AA_MP_NA_073_NGS_RHOA_Codon_17
SETBP1 Ex. 4	d	NGS	AA_MP_NA_051_NGS_SETBP1_Exon_4
SF3B1 Ex. 14 + 15	d	NGS	AA_MP_NA_052_NGS_SF3B1
SRSF2 (95)	d	NGS	AA_MP_NA_053_NGS_SRSF2
STAT3 Ex. 21	d	Sanger-Seq.	AA_MP_NA_007_Sanger_STAT3
TERT-Promotor	d, pro	NGS	AA_MP_NA_035_NGS_TERT_Promotor
U2AF1 (34 + 157)	d	NGS	AA_MP_NA_054_NGS_U2AF1

3. Mutationsanalyse kompletter Gene bzw. umfangreicher Genpanel

Basis-Panel	d, pro, prä	NGS	AA_MP_NA_046_NGS_Basis_Panel
BRCA1 und 2	prä	NGS	AA_MP_NA_048_NGS_BRCA
CDH1	d	NGS	AA_MP_NA_080_NGS_CDH1
CompCancer-DNA	d, pro, prä	NGS	AA_MP_NA_062_NGS_Comprehensive_DNA
CompCancer-DNA-plus	d, pro, prä	NGS	AA_MP_NA_001_NGS_Comprehensive_DNA_plus
Focus-DNA	d, pro, prä	NGS	AA_MP_NA_063_NGS_Focus_DNA
Mamma-Metastasen	d, pro, prä	NGS	AA_MP_NA_050_NGS_Mamma_Metastasen
MDS/MPN-Panel_v2	d, pro, prä	NGS	AA_MP_NA_030_NGS_MDS_MPN_v2
Myeloid-NGS-DNA	d, pro, prä	NGS	AA_MP_NA_060_NGS_Myeloid_DNA

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POLE	d, pro	NGS	.	AA_MP_NA_061_NGS_POLE
Resistenz-Panel	prä	NGS	.	AA_MP_NA_081_NGS_Resistenz_Panel
TP53	d, pro	NGS	.	AA_MP_NA_034_NGS_TP53

4. Nachweis von Fusionstranskripten und aberranter RNA-Expression

Archer Lung-Fusion	d, prä	NGS		AA_MP_NA_049_NGS_Archer_LungFusion
Archer Pan-Solid-Tumor	d, prä	NGS		AA_MP_NA_0086_NGS_Archer_Pan_Solid_Tumor
bcr/abl	d, prä	PAA-Gel		AA_MP_NA_012_bcr_abl
CompCancer-RNA	prä	NGS		A_MP_NA_067_NGS_Comprehensive_RNA
cyclinD1	d	quant. RT-PCR		AA_MP_NA_078_TaqMan_cyclin_D1
FIP1L1/PDGFRa	d	NGS		AA_MP_NA_068_NGS_FIP1L1_PDGFRa
kappa/lambda	d	quant. RT-PCR		AA_MP_NA_077_TaqMan_kappa_lambda
KIAA1549-BRAF	d	NGS		AA_MP_NA_003_NGS_KIAA1549_BRAF_Fusion
MET Ex 14 skipping	prä	NGS		AA_MP_NE_004_MET_Exon_14_skipping
Myeloid-NGS-RNA	d, pro, prä	NGS		AA_MP_NA_066_NGS_Myeloid_RNA
NTRK-Fusionen	prä	NGS		AA_MP_NA_005_NGS_NTRK_Fusion
RET-Fusionen	d, prä	NGS		AA_MP_NA_006_NGS_RET_Fusion

5. Mutationsanalyse im Blut („liquid biopsy“)

BRAF V600E	prä	dPCR		AA_MP_NA_069_dPCR_BRAF_600
EGFR T790M	prä	dPCR		AA_MP_NA_070_dPCR_EGFR_T790M
Mamma-LB-Panel	d, prä	NGS		AA_MP_NA_083_NGS_Mamma_LB
Basis-NGS-LB	d, pro, prä	NGS		AA_MP_NA_084_NGS_Basis_LB

6. Pathogennachweis

Mykobakterien	d	PAA-Gel		AA_MP_NA_023_Mykobakterien
				ggf. Sanger-Seq.
M.tbc-Komplex-Diff.	d	PAA-Gel, ggf. Sanger-Seq.		AA_MP_NA_008_M_tbc_Komplex_Subdifferenzierung
HPV	d, pro	Hybrid., ggf. Sanger-Seq.		AA_MP_NA_018_HP
Pilze	d	Hybrid., ggf. Sanger-Seq.		AA_MP_NA_019_Pilze

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7. weitere Untersuchungen

CDKN2A-Deletion	d, pro	dPCR	AA_MP_NA_071_dPCR_CDKN2A_Deletion
Homologe			
Rekombinationsdefizienz (HRD)	prä	OncoScan SNP-Array	AA_MP_NA_085_OncoScan_HRD
MGMT-Methylierung	prä	Pyroseq.	AA_MP_NA_010_Methylierung_MGMT
Mikrosatelliten-Instabilität	d, pro, prä	Kapillarelektroph.	AA_MP_NA_079_Fragmentanalyse_MSI
MLH1-Methylierung	d	Pyroseq.	AA_MP_NA_011_Methylierung_MLH1
STR-Analyse	d	Kapillarelektroph.	AA_MP_NA_075_Fragmentanalyse_STR
Tumormutationslast (TMB)	prä NGS		AA_MP_NA_076_NGS_TMB

Abkürzungen in diesem Dokument

d:	diagnostischer Marker
pro:	prognostischer Marker
prä:	prädiktiver Marker

Kapillarelektroph.:	Kapillarelektrophorese
Sanger-Seq.:	Sanger-Sequenzierung
Pyroseq.:	Pyrosequenzierung
NGS:	Next Generation Sequencing
dPCR:	digitale PCR
quant. RT-PCR	quantitative Reverse-Transkriptase-PCR
Hybrid.:	Hybridisierung
PAA-Gel:	Polyacrylamid-Gel

Mitgeltende Dokumente:

Alle in der rechten Spalte aufgeführten Arbeitsanweisungen (AA).