SOPHiA DDM™ for Solid Tumors

covers ESMO guideline-recommended genomic alterations

SOPHiA GENETICS™

Our applications target tumor-agnostic biomarkers with ESCAT level I score[1,a].

Gene	Alteration	ESCAT score	SOPHiA DDM™ STS (DNA) + SOPHiA DDM™ ROS (RNA)	SOPHiA DDM™ STS+ (DNA + RNA)	SOPHiA DDM™ Dx ROS (RNA)	SOPHiA DDM™ RNAtarget PanCancer (RNA)	MSK-IMPACT® Flex powered with SOPHiA DDM™	MSK-IMPACT® powered with SOPHiA DDM™	MSK-ACCESS® powered with SOPHiA DDM™
NTRK1/2/3	Fusions	IC	✓	✓ *	✓	✓	✓	✓ **	✓ ***
MSI-H/dMMR	MSI-H/dMMR	IC	✓	✓			✓	✓	
RET	Fusions	IC	✓	✓	✓	✓	✓	✓	✓
BRAF	Mutations (p.V600E)	IC	✓	✓		✓	✓	✓	✓
FGFR1/2/3	Fusions / Mutations	IC	✓	✓	✓	✓	✓	✓ **	✓ ***
TMB-H	TMB-H	IC					✓	✓	
			Targeted Somatic Applications					CGP	LBx

Table reflects a non-exhaustive list of SOPHiA DDM™ for Solid Tumors applications. *Not including *NTRK2* fusions. **DNA input only. Not including *FGFR1* and *NTRK3* fusions. ***DNA input only. Not including FGFR1 and *NTRK2/3* fusions.

Our applications target key cancer-associated biomarkers with ESCAT level I/II scores[1,a].

NSCLC	Breast	Colorectal	Prostate	Pancreatic	Ovarian	Cholangio-carcinoma	GIST	Thyroid	CUP	Soft-tissue sarcoma
EGFR	*ERBB2*	*KRAS, NRAS*	*BRCA1/2*	*BRCA1/2*	*BRCA1/2*	*IDH1*	*KIT*	*RET*	*TMB-H*	*ALK*
ALK	*PIK3CA*	*BRAF*	*PTEN*	*KRAS*	***HRD***	*FGFR2*	*PDGFRA*	*BRAF*	*ALK*	*COL1A1- PDGFB*
KRAS	*ESR1*	*MSI-H/dMMR*	*ATM*	*PALB2*		*ERBB2*				*INI1/ SMARCB1*
RET	*BRCA1/2*	*KRAS*	*PALB2*	*NRG1*		*BRAF*				*TSC1/2*
ROS1	*PTEN*	*ERBB2*				*KRAS*				
BRAF	*AKT1*	*POLE*								
MET	*PALB2*									
ERBB2										
NRG1										

Community Solution CSTS_106 covers all key breast cancer biomarkers.

SOPHiA DDM™ Dx HRD Solution is included in the recommendations as validated HRD detection method.

We offer applications that leverage a matched tumor-normal approach to support assessment and reporting of somatic vs. germline origin of variants.

ESMO recommends reporting germline vs. somatic variant origin[2]:

"We recommend that variants that may require follow-up confirmatory germline testing are clearly marked in the report. (…) For assays based on matched tumour-germline sequencing, the germline origin of any variant could be determined with certainty. In that case, we recommend including the germline versus somatic origin of alterations in the NGS report (if the patient consented for this)."

[a]Genomic alterations classified as ESCAT level III/IV were not reported in the guidelines since they should not be used for routine practice. 1. Mosele F, et al. Annal Oncol. 2024 S0923-7534(24)00111-X; 2. van de Haar J, et al. Annal Oncol. 2024; doi.org/10.1016/j.annonc.2024.06.018.
CUP, cancer of unknown primary; GIST, gastrointestinal stromal tumor; ESCAT, ESMO Scale for Clinical Actionability of molecular Targets; ESMO, European Society of Medical Oncology; HRD, homologous recombination deficiency; MSI-H, microsatellite instability, high; NSCLC, non-small cell lung cancer; TMB-H, tumor mutational burden, high. SOPHiA DDM™ Dx RNAtarget Oncology Solution and SOPHiA DDM™ Dx Homologous Recombination Deficiency Solution are available as CE-IVD products for In Vitro Diagnostic (IVD) Use in the European Economic Area (EEA), the United Kingdom and Switzerland. SOPHiA DDM™ Dx Solid Tumor Solution is available as a CE-IVD product for IVD use in the EEA, the United Kingdom, Switzerland, and Israel.

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