

# AmoyDx® IDH1/2 PCR Panel

## Fast, Accurate, Comprehensive IDH1/2 Mutation Detection



### Comprehensive Mutation Coverage

Detects 15 clinically relevant mutations in IDH1/2 exon 4, including R132H, R140Q, and R172K.

Target Exon	Detailed Mutation
IDH1 Exon 4	R132S/H/C/L/G
IDH2 Exon 4	R140W/G/Q/L, R172W/G/M/S (c.516G>T, c.516G>C) /K



### Unmatched Sensitivity, Specificity, and Analytical Precision

ADx-ARMS® technology enhances detection accuracy while reduces wild-type background. It detects mutations at as low as 1-2% VAF.



### Fast Turnaround Time

Results within 2.5 hours from DNA with robust quality controls, ideal for time-sensitive research.



### Streamlined Workflow

Pre-loaded format with automated result interpretation.

## AmoyDx® IDH1/2 Panel - Superior Sensitivity Compared to Sanger Sequencing

To evaluate the clinical reliability of the AmoyDx® IDH1/2 PCR Panel, its performance was compared to Sanger sequencing using 949 samples, summarized in the table below.

Concordance Analysis of AmoyDx® IDH1/2 PCR Panel vs. Sanger Sequencing				
IDH1/IDH2		Sanger		Total
		Positive	Negative	
AmoyDx IDH1/IDH2	Positive	116	17	133
	Negative	0	816	816
Total		116	833	949
PPA: 100.00% NPA: 97.96% OPA: 98.21%				

The AmoyDx® IDH1/2 PCR Panel offers high sensitivity and specificity, with excellent overall accuracy for detecting IDH1/2 mutations compared to Sanger sequencing.

## Guiding Precision Therapy in AML and Glioma

### Acute Myeloid Leukemia(AML)

#### Common IDH mutation types in AML:

IDH1: R132H, R132C  
IDH2: R140Q, R172K

IDH mutation testing plays a crucial role in AML classification, the development of differentiated treatment strategies, and prognosis prediction.

### Glioma

#### Common IDH Mutation Types in Glioma:

IDH1: R132H (>90% in all Glioma IDH1 mutations)  
IDH2: R172K

IDH1/2 mutation testing is critical for glioma classification, prognostic stratification, and guiding targeted therapies while informing treatment sensitivity to chemo/radiotherapy in IDH-mutant gliomas.

## Turnaround Time from DNA to Report within 2.5 hours



3 hours  
DNA Extraction



30 mins  
PCR Setup



2 hours  
Real-Time PCR Run



1-2 mins  
Automated Data Analysis

## Ordering Information

Catalog Number	8.01.0320 (SLAN-96S) 8.01.0321 (QuantStudio 5) 8.01.0322 (LightCycler480 II, cobas z 480)
Kit Format	10 tests / kit

For Research Use Only. Not for use in diagnostic procedures.

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