

Human AGTR1/ACE/ADRB1/CYP2D6/CYP2C9 Gene Detection Kit

Medication Guidance for Hypertension

Background:

There are as many as 330 million hypertensive patients in China, about 60% of them have a family history of hypertension. *Chinese Guidelines for the Management of Hypertension* shows that the compliance rate of hypertension after treatment in China is only 16.9%. Based on *the Catalogue of Clinical Test Items for Medical Institutions (2013 Edition)* issued by National Health and Family Planning Commission of China (NHFPC), the genetic polymorphism detection of CYP2D6, CYP2C9, ADRB1, AGTR1 and ACE genes related to hypertension medication, are explicitly included in the molecular biology tests for medication guidance.



Easy Operation

- Unique fluorescence PCR technology
- Each sample occupies only one reaction well
- 90 mins to complete

Simple Results Analysis

- Simplified analysis without ΔCT value reading
- Simple training

Multiple Detection Sites

- Up to 5 detection sites

Technology Platform — Real-time Fluorescence Quantitative PCR System



CLINICAL SIGNIFICANCE

Factors influencing hypertension include age, complications, nutritional status, genetic background, drug interactions and environment, among which genes is particularly important factor. Genes are involved in the drug absorption, delivery, metabolism, effect and clearance in the body, patients with different genotypes may show different degrees of response during the above drug action, with individual differences in drug reactivity.

Detection site	Genotype	Phenotype	Suggestions for clinical application	Medicine type
CYP2C9	*1/*1	Hypermetabolism	Conventional dose	Angiotensin II receptor blocking drugs
	*1/*3	Intermediate metabolism	Lower dose	
	*3/*3	Weak metabolism	Very low dose	
AGTR1 1166A>C	1166AA	Normal sensitivity	Normal efficacy	
	1166CA	Increased sensitivity	Slightly good efficacy	
	1166CC	Good sensitivity	Good efficacy	
ADRB1 1165G>C	1165GG	Decreased sensitivity	Slightly poor efficacy	β Adrenaline receptor blocker
	1165CG	Normal sensitivity	Normal efficacy	
	1165CC	Increased sensitivity	Good efficacy	
CYP2D6	*1/*1	Hypermetabolism	Regular dose or higher dose	
	*1/*10	Intermediate metabolism	Conventional dose	
	*10/*10	Weak metabolism	Lower dose	
ACE	D/D	Increased enzyme activity	Recommended to use ACEI	Angiotensin converting enzyme inhibitor
	I/D	Normal enzyme activity	ACEI may be tried	
	I/I	Reduced enzyme activity	ACEI may be tried	

APPLICABLE DEPARTMENTS

Applicable population: people with hypertension who are taking or will take antihypertensive drug.

Applicable departments: cardiology department, neurology department, hypertension department, etc.

ORDER INFORMATION

Product Name	Article No	Specification	Applicable model
Human AGTR1/ACE/ADRB1/CYP2D6/CYP2C9 Gene Detection Kit (PCR fluorescence probe method)	YZYMT-025	20 tests/kit	ABI 7500,Roche LightCycler 480, StrataGene MX3000P,Line-Gene 9600 Plus, SLAN series of Shanghai Hongshi



THE RIGHT DRUG FOR THE RIGHT PATIENT



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