

CYP2D6 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP02409
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human Cytochrome P450 2D6. AA range:251-300
Mol wt	50054
Species reactivity	Human
Clonality	Polyclonal
Recommended application	WB, IHC-p, ELISA
Concentration	1 mg/ml
Full name	CYP2D6 Antibody
Synonyms	CYP2D6; CYP2DL1; Cytochrome P450 2D6; CYP11D6; Cytochrome P450-DB1; Debrisoquine 4-hydroxylase

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

CYP2D6 encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and is known to metabolize as many as 25% of commonly prescribed drugs. Its substrates include antidepressants, antipsychotics, analgesics and antitussives, beta adrenergic blocking agents, antiarrhythmics and antiemetics. The gene is highly polymorphic in the human population; certain alleles result in the poor metabolizer phenotype, characterized by a decreased ability to metabolize the enzyme's substrates. Some individuals with the poor metabolizer phenotype have no functional protein since they carry 2 null alleles whereas in other individuals the gene is absent. This gene can vary in copy number and individuals with the ultrarapid metabolizer phenotype can have 3 or more active copies of the gene. Alternatively spliced transcript variants encoding different isoforms have been found for CYP2D6.

Recommended Dilution

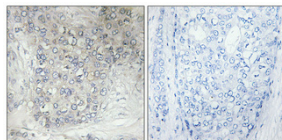
WB: 1: 500 - 1: 2000

IHC: 1: 100 - 1: 300

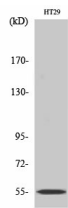
ELISA: 1: 10000

Not yet tested in other applications.

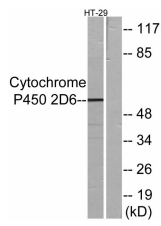
Images



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.



Western Blot analysis of various cells using CYP2D6 Polyclonal Antibody



Western blot analysis of lysates from HT-29 cells, using Cytochrome P450 2D6 Antibody. The lane on the right is blocked with the synthesized peptide.

Storage

-20°C for one year

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