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Product datasheet for AP01245PU-N

CYP2D6 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**Western Blot:** 1/500-1/1000. **Immunohistochemistry on paraffin sections:** 1/50-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 241-290 of Human CYP2D6.
Specificity:	This antibody detects endogenous levels of CYP2D6 protein. (region surrounding Ala277)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch
Predicted Protein Size:	~ 55 kDa
Gene Name:	cytochrome P450 family 2 subfamily D member 6
Database Link:	Entrez Gene 1565 Human P10635

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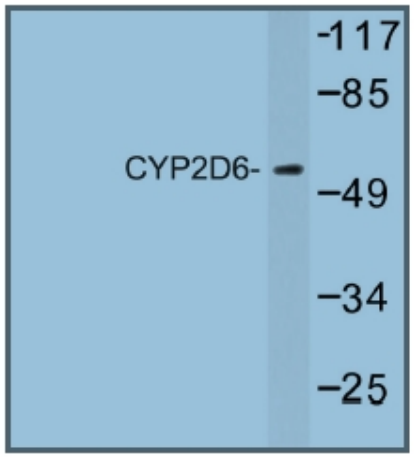
Background: The P450II family comprises at least 5 subfamilies, designated A through E by the system of nomenclature recommended by an international committee. The P450IID subfamily comprises at least 2 genes in the rat, one of which is highly specific for debrisoquine 4-hydroxylase activity. An association of this gene with lung cancer has been found. Enhanced CYP2D6 activity has been related to malignancies of the bladder, liver, pharynx, and stomach and, especially, to cigarette-smoking-induced lung cancer. The data suggests that enhanced CYP2D6-mediated metabolism of one or more dietary and other environmental agents, to form a reactive intermediate, plays a role in cancer initiation and/or promotion in various tissues. CYP2D6 polymorphism, which is responsible for the variation in metabolism of debrisoquine 4-hydroxylase, is important in the metabolism of more than 30 drugs and environmental chemicals, including as much as 20% of all commonly prescribed drugs. The gene which encodes CYP2D6 maps to human chromosome 22q13.1

Synonyms: CYP2DL1, Cytochrome P450 2D6, CYPIID6, Cytochrome P450-DB1

Product images:



Western blot (WB) analysis of CYP2D6 antibody (Cat.-No.: AP01245PU-N) in extracts from HT-29 cells.