

#4371 Store at -20C

UGT Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	55-60	Rabbit	#Q9HAW8, #O60656, #P35503, #P22309, #P35504, #P22310, #Q9HAW7, #Q9HAW9, #P19224	54575, 54600, 54659, 54658, 54579, 54657, 54577, 54576, 54578

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	UGT Antibody detects endogenous levels of proteins from the UGT1A subfamily.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of the UGT1A subfamily. Antibodies were purified by protein A and peptide affinity chromatography.	
Background	Glucuronidation is a major pathway that enhances the elimination of lipophilic xenobiotics and endobiotics to more more water soluble compounds for excretion (1,2). The UDP-glucuronosyltransferase (UGT) superfamily catalyzes the glucuronidation of the glycosyl group of a nucleotide sugar to a variety of endogenous and exogenous compounds. Over 100 UGT mammalian gene products have been described and have been divided into subfamilies based on sequence identities (3). The UGT1 subfamily consists of a number of gene products resulting from alternative splicing. These UGT products can differ in tissue expression and substrate specificity. Also, marked differences in the individual expression of UGT isoforms can account for differences in drug metabolism.	
Background References	1. Wells, P.G. et al. (2004) <i>Drug Metab. Dispos.</i> 32, 281-90. 2. King, C.D. et al. (2000) <i>Curr. Drug Metab.</i> 1, 143-61. 3. Mackenzie, P.I. et al. (2005) <i>Pharmacogenet. Genomics</i> 15, 677-85.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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