

Product Information Sheet

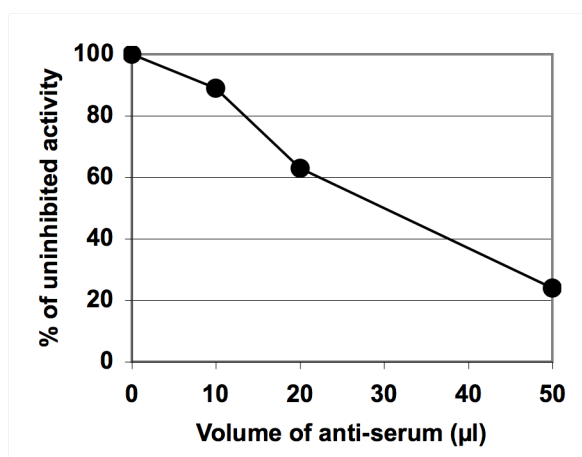
Anti-rat CYP4A1 (for immunoinhibition and Western blotting)

Catalogue Number:	R-PAP151
Product Description:	Polyclonal antiserum raised in goat against purified rat CYP4A1
Amount:	200 µl
Storage:	Store at -20°C. Avoid repeated freeze-thaw cycles.
Intended Use:	For laboratory (research) purposes only.
Applications:	Immunoinhibition and Western blotting
Batch Number:	030707

Specificity of immunoinhibition against rat CYPs

CYP1A1	CYP1A2	CYP2B1	CYP2B2	CYP2C11	CYP2E1	CYP3A2	CYP4A1
-	-	-	-	-	-	-	**

Potency of immunoinhibition: *** strong; ** moderate; * weak; - not detectable



Graph showing immunoinhibition of lauric acid ω -hydroxylation in liver microsomes prepared from clofibrate-treated rats. Anti-serum (0 – 50 µl) was pre-incubated with rat liver microsomes (100 µg protein) at room temperature for 30 min before starting the reaction. The final incubation volume was 500 µl. Data published by Daiichi Pure Chemical Co. Ltd.

Blotting specificity

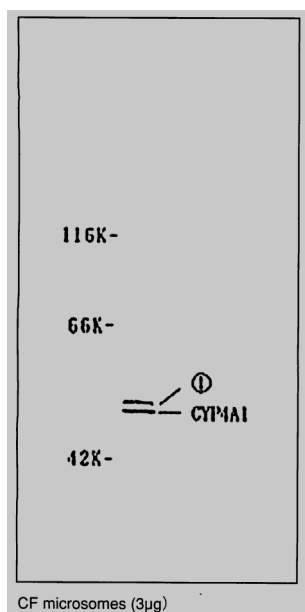
CYP1A1	CYP1A2	CYP2A1	CYP2A2	CYP2B1	CYP2C6	CYP2C11	CYP2C13
-	-	-	-	-	-	-	-

CYP2E1	CYP3A2	CYP4A1
-	-	***

Degree of cross-reactivity on Western blot: *** strong; ** moderate; * weak; - not detectable; ± weak or not detectable

A dilution of between 1:500 and 1:2000 is suggested as a starting point for Western blotting applications.

[See, for example, Kroetz *et al Mol. Pharmacol.* **52** (1997): 362-372; Dunn *et al Am. J. Physiol.* **295** (2008): H2455-H2465]



Western blot of liver microsomes prepared from a clofibrate-treated rat (3 µg protein) showing the specificity of the R-PAP151 antibody. The band labelled ① is reported to represent CYP4A3, based on the apparent molecular weight. Data published by Daiichi Pure Chemical Co. Ltd.

Approved by _____

Date 4th December, 2012

Safety Data

The toxicological properties of this reagent have not been investigated. Exercise due care when handling.

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