

MONOCLONAL ANTIBODY DATASHEET



Clone MC1 against human CYP1A1 and CYP1A2

Product Description	Monoclonal antibody directed against human CYP1A1 and CYP1A2 (see below). Supplied as hybridoma supernatant (unpurified).
Storage	Store at -20°C . Avoid repeated freeze-thaw cycles.
Intended Use	For laboratory (research) purposes only.
Isotype	IgG1, κ
Clone	MC1
Immunogen	3-methylcholanthrene induced rat cytochrome P450 proteins
B Cell Donor	BALB-c mouse
Fusion Partner	Ag 8563
Positive Control	IHC: formalin-fixed, paraffin-embedded normal liver sections. Western blot: recombinant CYP (shown below @ 0.5 pmol per lane).

Applications		Recommended Usage Conditions (conditions should be optimised by the user)
ELISA	not tested	n/a
Western blot	✓	1/10 dilution
IHC	✓	1/5 dilution, antigen retrieval: microwave 20 min @ 800W in 10 mM citrate buffer, pH 6

Human tissues examined using reagent	Results observed
Normal liver	Cells show positive staining

WESTERN BLOT								
1A1	1A2	1B1	2A6	2B6	2C8	2C9	2C18	2C19
+	+	-	-	-	-	-	-	-
2D6	2E1	4A11	4F2	3A4	3A5	3A7	liver	
-	-	-	-	-	-	-	+	

Reactivity with recombinant CYP proteins and liver cell lysate

WESTERN BLOT OF RECOMBINANT CYP450s										IMMUNOHISTOCHEMISTRY	
MW (kDa)	1	2	3	4	5	6	7	8	9	10	
180 → 116 → 97 → 58.1 → 39.8 →											
	1. markers	2. CYP3A4	3. CYP3A7	4. CYP2B6	5. CYP2C8	6. CYP2C9	7. CYP2E1	8. CYP1B1	9. CYP1A2	10. CYP4A11	
	1. markers	2. CYP3A5	3. CYP1A1	4. CYP2C18	5. CYP2C19	6. CYP2D6	7. CYP4F2	8. CYP2A6	9. neg. control	10. liver micr.	Antibody staining of normal liver tissue