

# CYP3A5 Monoclonal Antibody (F18 P3 B6)

## Product Details

Size	100 µL
Species Reactivity	Bovine, Human
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	F18 P3 B6
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues E S R D G T L S G E, conjugated to ovalbumin.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	ascites
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2090513

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	2 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1:250	1 Publication
ELISA (ELISA)	Assay-dependent	-

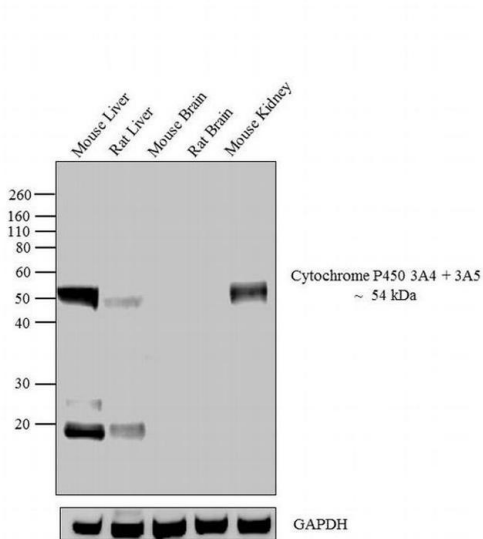
## Product Specific Information

MA3-033 detects Cytochrome P450 3A5 from HEK293 and HepG2 human cell lines, and from bovine liver and pancreas samples.

MA3-033 has been successfully used in Western blot applications. By Western blot, this antibody detects a ~54 kDa band representing Cytochrome P450 3A5.

The MA3-033 immunogen is a synthetic peptide corresponding to residues E S R D G T L S G E, conjugated to ovalbumin.

Product Images For CYP3A5 Monoclonal Antibody (F18 P3 B6)

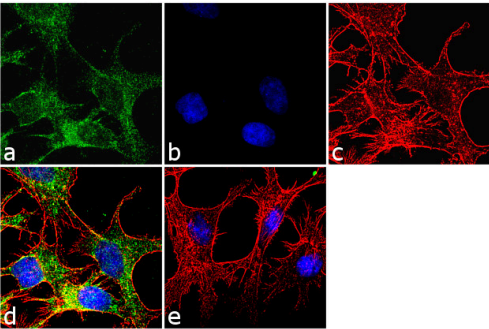


CYP3A5 Antibody (MA3-033) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of Mouse Liver (Lane 1), Rat Liver (Lane 2), Mouse Brain (Lane 3), Rat Brain (Lane 4) and Mouse Kidney (Lane 5). The blots were probed with Anti-Cytochrome P450 3A5 Mouse Monoclonal Antibody (Product # MA3-033, 1:100-1:1000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate (Product # 62-6520, 1:4000 dilution). A 54 kDa band corresponding to Cytochrome P450 3A4 + 3A5 was observed across cell lines tested except in Mouse Brain and Rat Brain. An extra band was observed at approximately ~20 kDa in Mouse Liver and Rat Liver. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0301BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

CYP3A5 Antibody (MA3-033) in ICC/IF

Immunofluorescence analysis of Cytochrome P450-3A5 was done on 70% confluent log phase HepG2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Cytochrome P450 3A5 (F18 P3 B6) Mouse Monoclonal Antibody (Product # MA3-033) at 1:250 dilution in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing cytoplasmic localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.



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Western Blot (2)

Scientific reports	Year 2021
Antisense oligonucleotide development for the selective modulation of CYP3A5 in renal disease.	Species Human
"MA3-033 was used in Western Blotting to evaluate the safety profile of morpholinos in proximal tubule epithelial cells, highlighting their potential as a therapeutic platform for the treatment of renal disease."	Dilution 1:100
Authors: Lidberg KA,Annalora AJ,Jozic M,Elson DJ,Wang L,Bammler TK,Ramm S,Monteiro MB,Himmelfarb J,Marcus CB,Iversen PL,Kelly EJ	

Cancers	Year 2020
Role of CYP3A5 in Modulating Androgen Receptor Signaling and Its Relevance to African American Men with Prostate Cancer.	Species Human
"MA3-033 was used in Immunocytochemistry to investigate the effect of commonly co-prescribed CYP3A5 inhibitors /inducers with androgen deprivation therapy on AR translocation and their modulation downstream signaling."	Dilution 1:100
Authors: Gorjala P,Kittles RA,Goodman OB,Mitra R	

Immunohistochemistry (1)

Clinical cancer research : an official journal of the American Association for Cancer Research	Year 2005
Cytochrome p450 profile of colorectal cancer: identification of markers of prognosis.	Species Human
"MA3-033 was used in immunohistochemistry to investigate the changes of cytochrome p450 expression in colorectal tumors"	
Authors: Kumarakulasingham M,Rooney PH,Dundas SR,Telfer C,Melvin WT,Curran S,Murray GI	

Immunocytochemistry (1)

Cancers	Year 2020
Role of CYP3A5 in Modulating Androgen Receptor Signaling and Its Relevance to African American Men with Prostate Cancer.	Species Human
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Authors: Gorjala P,Kittles RA,Goodman OB,Mitra R	

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