

Product Datasheet

Cytochrome P450 1A1/1A2 Antibody (MC1) NB100-74398

Unit Size: 100uL

Store at -20C. Avoid freeze-thaw cycles.

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NB100-74398**Cytochrome P450 1A1/1A2 Antibody (MC1)**

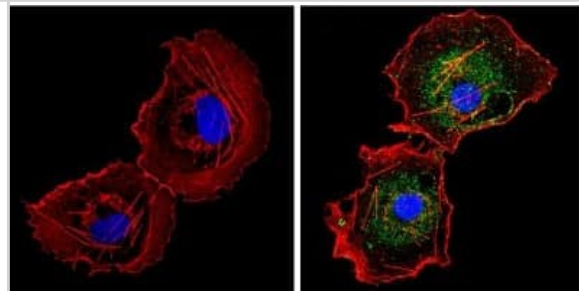
Product Information	
Unit Size	100uL
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	MC1
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Ascites
Target Molecular Weight	58 kDa

Product Description	
Host	Mouse
Gene ID	1543
Gene Symbol	CYP1A1
Species	Human, Mouse, Rat, Primate
Specificity/Sensitivity	Detects Cytochrome P450 1A1 (Gene ID: 1543, UniProt P04798) and Cytochrome P450 1A2 (Gene ID: 1544, UniProt: P05177) from human samples.
Immunogen	3-methylcholanthrene induced rat cytochrome P450 protein.

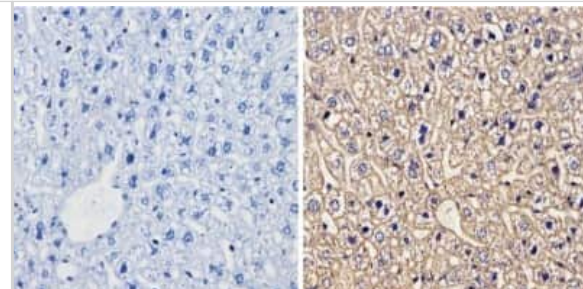
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 1:20 - 1:200, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	WB: Detects an approx. 58 kDa protein.

Images

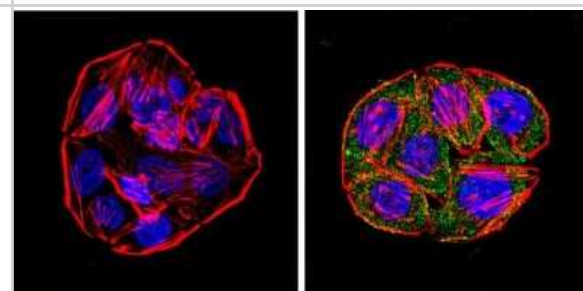
Immunocytochemistry/Immunofluorescence: Cytochrome P450 1A1/1A2 Antibody (MC1) [NB100-74398] - Analysis of Cytochrome P450 1A1/1A2 (green) showing staining in the cytoplasm and membrane of COS-7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Cytochrome P450 1A1/1A2 monoclonal antibody in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI.



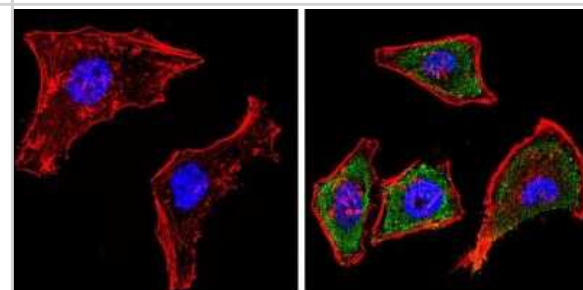
Immunohistochemistry-Paraffin: Cytochrome P450 1A1/1A2 Antibody (MC1) [NB100-74398] - Analysis showing positive staining in the cytoplasm and membrane of Mouse liver tissue (right) compared with a negative control in the absence of primary antibody (left).



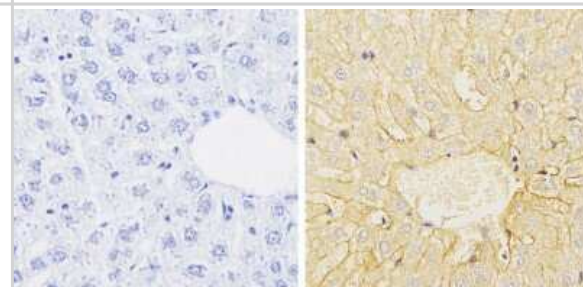
Immunocytochemistry/Immunofluorescence: Cytochrome P450 1A1/1A2 Antibody (MC1) [NB100-74398] - Analysis of Cytochrome P450 1A1/1A2 (green) showing staining in the cytoplasm and membrane of HT29 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Cytochrome P450 1A1/1A2 monoclonal antibody in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent phalloidin and nuclei (blue) were stained with Hoechst or DAPI.



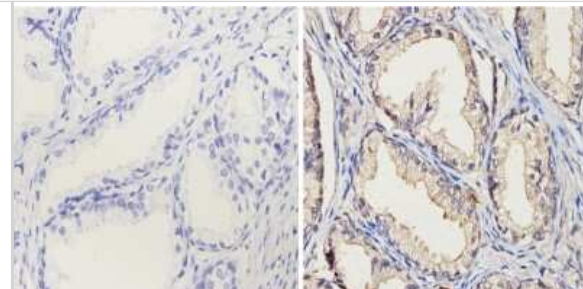
Immunocytochemistry/Immunofluorescence: Cytochrome P450 1A1/1A2 Antibody (MC1) [NB100-74398] - Analysis of Cytochrome P450 1A1/1A2 (green) showing staining in the cytoplasm and membrane of HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Cytochrome P450 1A1/1A2 monoclonal antibody in 3% BSA-PBS at a dilution of 1:100 and incubated overnight at 4C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI.



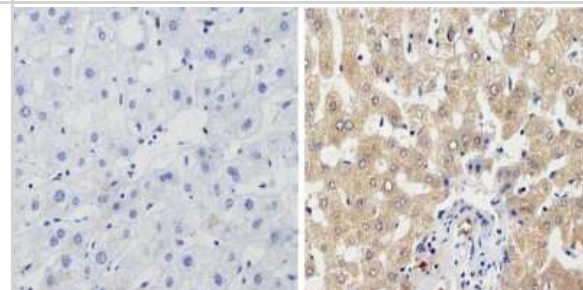
Immunohistochemistry-Paraffin: Cytochrome P450 1A1/1A2 Antibody (MC1) [NB100-74398] - Analysis showing staining in the cytoplasm and membrane of rat liver tissue (right) compared with a negative control without primary antibody (left).



Immunohistochemistry-Paraffin: Cytochrome P450 1A1/1A2 Antibody (MC1) [NB100-74398] - Analysis showing positive staining in the membrane of Human prostate tissue (right) compared with a negative control in the absence of primary antibody (left).



Immunohistochemistry-Paraffin: Cytochrome P450 1A1/1A2 Antibody (MC1) [NB100-74398] - Analysis showing positive staining in the cytoplasm and membrane of Human liver tissue (right) compared with a negative control in the absence of primary antibody (left).



Publications

Wu Q, Li Y, Yang Z Et al. Ectopic expansion and vascularization of engineered hepatic tissue based on heparinized acellular liver matrix and mesenchymal stromal cell spheroids Acta biomaterialia 2021-10-19 [PMID: 34678485] (IF/IHC, Rat)

Volkova M, Forstova-Krizova V, Skalova L, Trejtnar F. Modulatory effects of quercetin and rutin on the activity, expression and inducibility of CYP1A1 in intestinal HCT-8 cells Phytother Res. 2013-12-01 [PMID: 24892140] (WB, Human)



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Products Related to NB100-74398

NBL1-09675	Cytochrome P450 1A1 Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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