

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)**

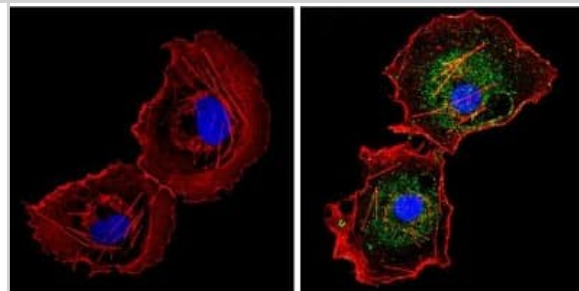
| Product Information | |
|--------------------------------|--|
| Unit Size | 100uL |
| Concentration | This product is unpurified. The exact concentration of antibody is not quantifiable. |
| Storage | Store at -20C. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | MC1 |
| Preservative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

| Product Description | |
|--------------------------------|--|
| Description | Novus Biologicals Mouse Cytochrome P450 1A1/1A2 Antibody (MC1) (NB100-74398) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Cytochrome P450 1A1/1A2 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| 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 Cytochrom P450 1A2 (Gene ID: 1544, UniProt: P05177) from human samples. |
| Immunogen | 3-methylcholanthrene induced rat cytochrome P450 protein. |

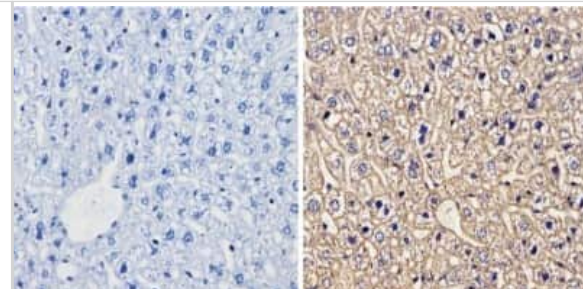
| Product Application Details | |
|------------------------------|--|
| Applications | Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry |
| Recommended Dilutions | Western Blot 1:500, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/Immunofluorescence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

Images

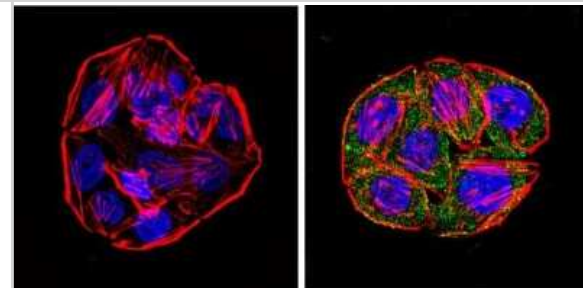
Immunocytochemistry/Immunofluorescence: Cytochrome P450 1A1/1A2 Antibody (MC1) [NB100-74398] - Analysis of Cytochrome P450 1A1/1A2 (green) showing staining in the cytoplasm and membrane of COS-7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked 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.



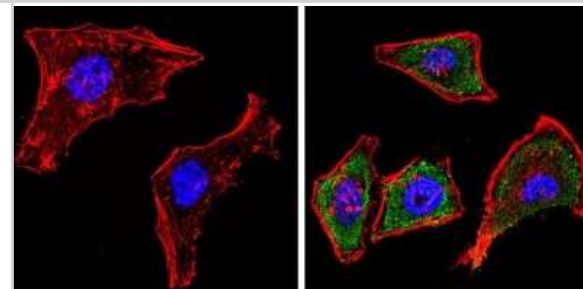
Immunohistochemistry-Paraffin: Cytochrome P450 1A1/1A2 Antibody (MC1) [NB100-74398] - Analysis showing positive staining in the cytoplasm and membrane of Mouse liver tissue (right) compared with a negative control in the absence of primary antibody (left).



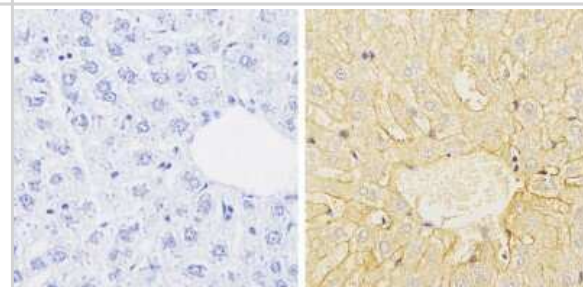
Immunocytochemistry/Immunofluorescence: Cytochrome P450 1A1/1A2 Antibody (MC1) [NB100-74398] - Analysis of Cytochrome P450 1A1/1A2 (green) showing staining in the cytoplasm and membrane of HT29 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 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.



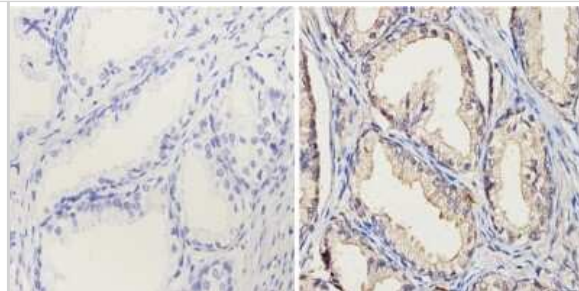
Immunocytochemistry/Immunofluorescence: Cytochrome P450 1A1/1A2 Antibody (MC1) [NB100-74398] - Analysis of Cytochrome P450 1A1/1A2 (green) showing staining in the cytoplasm and membrane of HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 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.



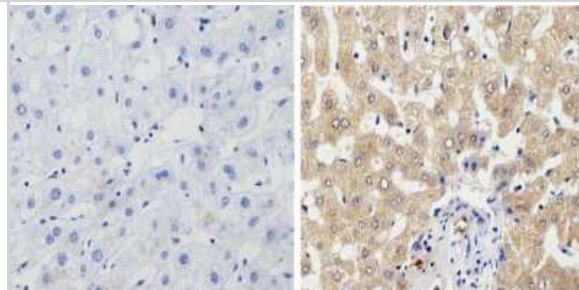
Immunohistochemistry-Paraffin: Cytochrome P450 1A1/1A2 Antibody (MC1) [NB100-74398] - Analysis showing staining in the cytoplasm and membrane of rat liver tissue (right) compared with a negative control without primary antibody (left).



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 |
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP] |
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB7539 | Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP] |
| 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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