

Product Datasheet

ABCB5 Antibody - BSA Free NBP1-77687

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-77687

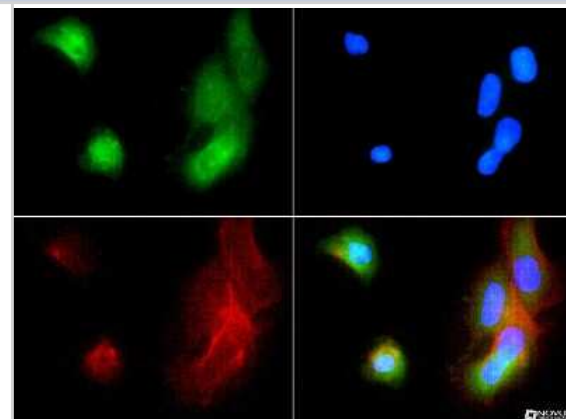
ABCB5 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Product Description	
Host	Rabbit
Gene ID	340273
Gene Symbol	ABCB5
Species	Human, Mouse
Immunogen	A synthetic peptide made to an internal portion of the human ABCB5 protein (between residues 150-200) [UniProt Q2M3G0]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot reported in scientific literature (PMID 25030174), Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:200
Application Notes	Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

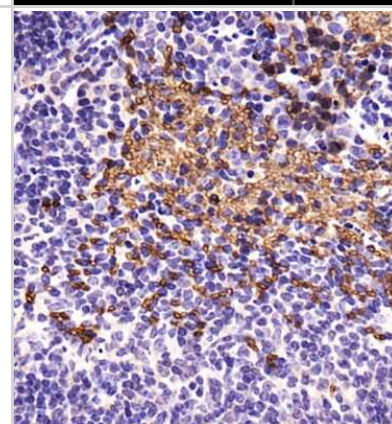


Images

Immunocytochemistry/Immunofluorescence: ABCB5 Antibody [NBP1-77687] - ABCB5 antibody was tested in A431 cells with FITC (green). Nuclei and actin were counterstained with DAPI (blue) and Phalloidin (red).



Immunohistochemistry: ABCB5 Antibody [NBP1-77687] - Analysis of ABCB5 in mouse spleen using DAB with hematoxylin counterstain.



Publications

Lasagni Vitar R, Triani F, Barbariga M et al. Substance P/neurokinin-1 receptor pathway blockade ameliorates limbal stem cell deficiency by modulating mTOR pathway and preventing cell senescence *Stem cell reports* 2022-03-10 [PMID: 35334220]

Strobel SB, Machiraju D, HUlsmeyer I et al. Expression of Potential Targets for Cell-Based Therapies on Melanoma Cells *Life (Basel, Switzerland)* 2021-03-24 [PMID: 33805080] (IF/IHC, Human)

Roy T, Boateng ST, Banang-Mbeumi S et al. Synthesis, inverse docking-assisted identification and in vitro biological characterization of Flavonol-based analogs of fisetin as c-Kit, CDK2 and mTOR inhibitors against melanoma and non-melanoma skin cancers *Bioorganic chemistry* 2021-02-01 [PMID: 33450548]

Lee J, Abdeen A, Li Y et al. Gradient and Dynamic Hydrogel Materials to Probe Dynamics in Cancer Stem Cell Phenotypes *ACS Applied Bio Materials* 2020-12-16

Tucci M, D'Oronzo S, Mannavola F et al. Dual-procedural separation of CTCs in cutaneous melanoma provides useful information for both molecular diagnosis and prognosis *Ther Adv Med Oncol* 2020-03-13 [PMID: 32206092] (Human)

Ksander BR, Kolovou PE, Wilson BJ et al. ABCB5 is a limbal stem cell gene required for corneal development and repair. *Nature* 2014-07-17 [PMID: 25030174] (WB)

Procedures

Immunohistochemistry-Paraffin Embedded Sections protocol specific for ABCB5 antibody (NBP1-77687) IHC-P

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes (keep slides in the sodium citrate buffer at all times).

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in PBS for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1% BSA in PBS) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul HRP polymer conjugated secondary antibody. Incubate 30 minutes at room temperature.
7. Wash sections three times in wash buffer for 5 minutes each.
8. Add 100-400 ul DAB substrate to each section and monitor staining closely.
9. As soon as the sections develop, immerse slides in deionized water.
10. Counterstain sections in hematoxylin.
11. Wash sections in deionized water two times for 5 minutes each.
12. Dehydrate sections.
13. Mount coverslips.

Immunocytochemistry/ Immunofluorescence Protocol for ABCB5 Antibody (NBP1-77687)

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and wash the cells briefly in PBS. Add 10% formalin to the dish and fix at room temperature for 10 minutes.
2. Remove the formalin and wash the cells in PBS.
3. Permeabilize the cells with 0.1% Triton X100 or other suitable detergent for 10 min.
4. Remove the permeabilization buffer and wash three times for 10 minutes each in PBS. Be sure to not let the specimen dry out.
5. To block nonspecific antibody binding, incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
6. Add primary antibody at appropriate dilution and incubate overnight at 4C.
7. Remove primary antibody and replace with PBS. Wash three times for 10 minutes each.
8. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
9. Remove secondary antibody and replace with PBS. Wash three times for 10 minutes each.
10. Counter stain DNA with DAPI if required.





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Products Related to NBP1-77687

NB800-PC12	A-431 Whole Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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