

# Product Datasheet

## ABCA1 Antibody (1276B) - BSA Free NBP2-54792

Unit Size: 0.1 mg

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

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**NBP2-54792**

ABCA1 Antibody (1276B) - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	1276B
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	PBS

**Product Description**

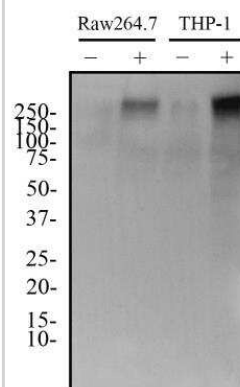
<b>Description</b>	Novus Biologicals Rabbit ABCA1 Antibody (1276B) - BSA Free (NBP2-54792) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-ABCA1 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	19
<b>Gene Symbol</b>	ABCA1
<b>Species</b>	Human, Mouse
<b>Immunogen</b>	A synthetic peptide made to an internal portion of the human ABCA1 Antibody (1276B) (between amino acids 1220-1280) [UniProt# O95477]

**Product Application Details**

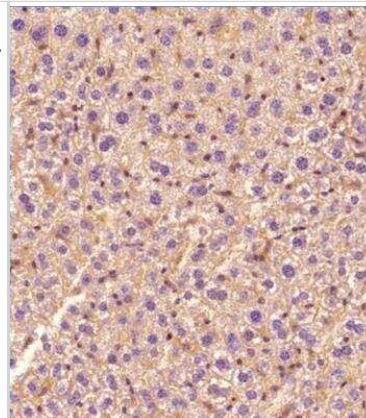
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 2 ug/ml, Immunohistochemistry 1:50 - 1:100, Immunocytochemistry/ Immunofluorescence 10-20 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:100, Flow (Intracellular) 1-2.5 ug/mL

**Images**

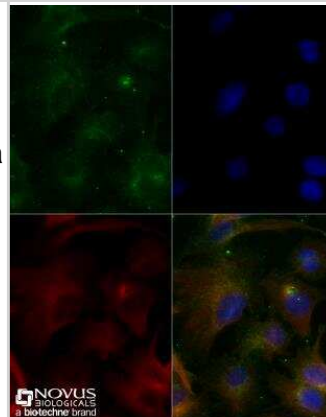
Western Blot: ABCA1 Antibody (1276B) [NBP2-54792] - Mouse Raw264.7 and human THP-1 cells were treated with and without the LXR agonist TO901317 (1 uM) for 24 hours. Total protein was then separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 0.5 ug/ml anti-ABCA1 in 5% non-fat milk in TBST and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.



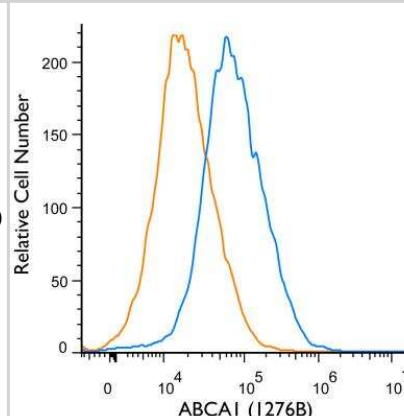
**Immunohistochemistry-Paraffin: ABCA1 Antibody (1276B) [NBP2-54792]**  
 - Analysis of a FFPE tissue section of mouse liver using ABCA1 antibody (1276B) Lot ckjv02 at 1:100 dilution. The primary antibody bound to ABCA1 antigen in the tissue section was detected using a HRP labeled secondary antibody and DAB reagent. Nuclei of the cells were counterstained with hematoxylin. This ABCA1 antibody generated specific staining in the membranes of the hepatocytes and the Kupffer cells. As expected for ABCA1, the staining signal was stronger in the Kupffer cells which are the tissue macrophages in liver.



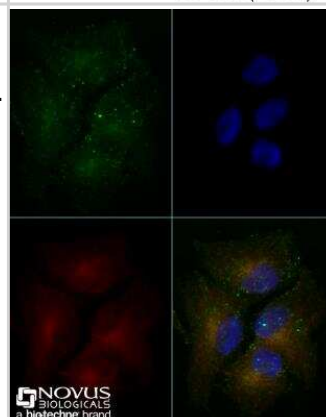
**Immunocytochemistry/Immunofluorescence: ABCA1 Antibody (1276B) [NBP2-54792]** - HepG2 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-ABCA1 at 10 ug/ml overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse DyLight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



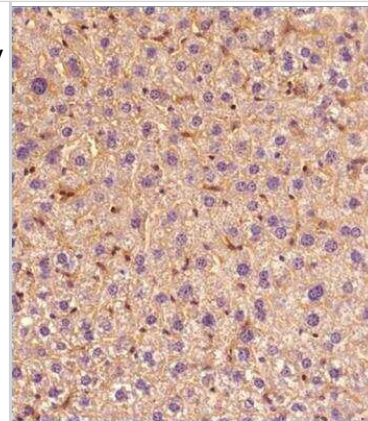
**Flow (Intracellular): ABCA1 Antibody (1276B) [NBP2-54792]** - An intracellular stain was performed on HepG2 Cells with ABCA1 (1276B) antibody NBP2-54792 (blue) and a matched isotype control MAB1050 (orange). Cells were fixed with 4% paraformaldehyde, following fixation, cells were permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by rabbit IgG APC-conjugated secondary antibody (F0111, R&D Systems).



**Immunocytochemistry/Immunofluorescence: ABCA1 Antibody (1276B) [NBP2-54792]** - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-ABCA1 at 10 ug/ml overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse DyLight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Immunohistochemistry-Paraffin: ABCA1 Antibody (1276B) [NBP2-54792]  
- Analysis of a FFPE tissue section of mouse liver using ABCA1 antibody (1276B) Lot ckjv0116091 at 1:50 dilution. The primary antibody bound to ABCA1 antigen in the tissue section was detected using a HRP labeled secondary antibody and DAB reagent. Nuclei of the cells were counterstained with hematoxylin. This ABCA1 antibody generated specific staining in the membranes of the hepatocytes and the Kupffer cells. As expected for ABCA1, the staining signal was stronger in the Kupffer cells which are the tissue macrophages in liver.



## Publications

Zhao W, Fan J, Kulic I et al. Axl receptor tyrosine kinase is a regulator of apolipoprotein E Mol Brain 2020-05-04 [PMID: 32366277] (WB, Human)



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### **Products Related to NBP2-54792**

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NBP3-11828	THP-1 TO901317 Treated / Untreated 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

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### **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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