

# Product Datasheet

## Aspartate Aminotransferase Antibody - BSA Free NBP1-54778

Unit Size: 100 ul

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

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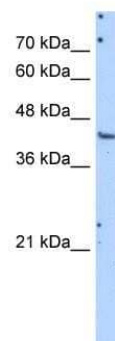
**NBP1-54778****Aspartate Aminotransferase Antibody - BSA Free**

<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS, 2% Sucrose
<b>Target Molecular Weight</b>	46 kDa
<b>Product Description</b>	
<b>Description</b>	The addition of 50% glycerol is optional for those storing this antibody at -20C and not aliquoting smaller units. However, please note that glycerol may interrupt some downstream antibody applications and should be added with caution.
<b>Host</b>	Rabbit
<b>Gene ID</b>	2805
<b>Gene Symbol</b>	GOT1
<b>Species</b>	Human, Rat
<b>Reactivity Notes</b>	Rat reactivity reported in scientific literature (PMID: 24611772).
<b>Immunogen</b>	Synthetic peptides corresponding to GOT1 (glutamic-oxaloacetic transaminase 1, soluble (aspartate aminotransferase 1)) The peptide sequence was selected from the N terminal of GOT1 (NP_002070). Peptide sequence MAPPSVFAEVPQAQPVLVFKLTADFREDPDPRKVN LGVGAYRTDDCHPWV The peptide sequence for this immunogen was taken from within the described region.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1.0 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Application Notes</b>	Use in Immunohistochemistry reported in scientific literature (PMID 27623078). Use in Immunohistochemistry-paraffin reported in scientific literature (PMID: 29375049).

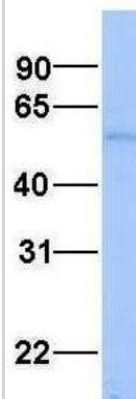


## Images

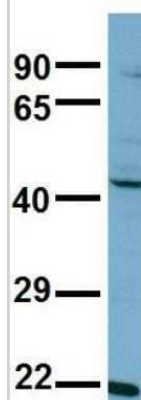
Western Blot: Aspartate Aminotransferase Antibody [NBP1-54778] -  
Titration: 1.0ug/ml, Positive Control: NCI-H226 cell lysate.



Western Blot: Aspartate Aminotransferase Antibody [NBP1-54778] -  
Human Fetal Liver.



Western Blot: Aspartate Aminotransferase Antibody [NBP1-54778] -  
Human NCI-H226.



## Publications

- Hollinshead KER, Parker SJ, Eapen VV, Encarnacion-Rosado J et al. Respiratory Supercomplexes Promote Mitochondrial Efficiency and Growth in Severely Hypoxic Pancreatic Cancer Cell Rep 2020-10-07 [PMID: 33027658]
- Tsai PY, Lee MS, Jadhav U et al. Adaptation of pancreatic cancer cells to nutrient deprivation is reversible and requires glutamine synthetase stabilization by mTORC1 Proc Natl Acad Sci U S A 2021-03-03 [PMID: 33653947]
- Kingston N Roles for Hippo pathway effectors Taz and Yap in cancer and fibrosis Thesis 2022-01-01
- Melendez-Rodriguez F, Urrutia AA, Lorendeau D et al. HIF1a Suppresses Tumor Cell Proliferation through Inhibition of Aspartate Biosynthesis Cell Rep 2019-02-26 [PMID: 30811976] (WB, Human)
- Yang CS, Stampoglou E, Kingston NM et al. Glutamine-utilizing transaminases are a metabolic vulnerability of TAZ/YAP-activated cancer cells. EMBO Rep 2018-04-16 [PMID: 29661856] (Human)
- Mohammed R, Provitera L, Cavallaro G, Lattuada D. Vasomotor effects of hydrogen sulfide in human umbilical vessels. J. Physiol. Pharmacol. 2017-10-01 [PMID: 29375049] (IHC-P, Human)
- Fujimura K, Wang H, Watson F, Klemke RL. KRAS oncoprotein expression is regulated by a self-governing eIF5A-PEAK1 feed-forward regulatory loop Cancer Res. 2018-01-10 [PMID: 29321164] (Human)
- Knudsen ES, Balaji U, Freinkman E et al. Unique metabolic features of pancreatic cancer stroma: relevance to the tumor compartment, prognosis, and invasive potential. Oncotarget. 2016-11-29 [PMID: 27623078] (IF/IHC, Human)
- Miyamoto Ryo, Otsuguro Ken-Ichi, Yamaguchi Soichiro, Ito Shigeo. Contribution of cysteine aminotransferase and mercaptopyruvate sulfurtransferase to hydrogen sulfide production in peripheral neurons. J Neurochem. 2014-03-27 [PMID: 24611772] (Rat)
- Son J, Lyssiotis CA, Ying H et al. Glutamine supports pancreatic cancer growth through a KRAS-regulated metabolic pathway Nature 2013-04-04 [PMID: 23535601] (WB, Human)
- Inoue,K. Diabetes Res. Clin. Pract. 79 (3), E4-E7. 2008-01-01 [PMID: 18242760]





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### **Products Related to NBP1-54778**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-52088-0.1mg	Recombinant Mouse Aspartate Aminotransferase His Protein

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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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