

# Product Datasheet

## Alas1 Antibody NB100-56415

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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**NB100-56415**

Alas1 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 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	Protein G purified
Buffer	PBS containing 0.05% BSA

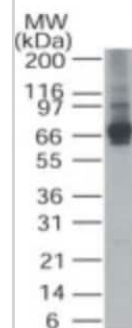
Product Description	
Description	Novus Biologicals Rabbit Alas1 Antibody (NB100-56415) is a polyclonal antibody validated for use in IHC, WB and Simple Western. Anti-Alas1 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	211
Gene Symbol	ALAS1
Species	Human, Rat
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: 100% homologous in human, chimp and beluga whale; 94% in dog and chicken; 88% in mouse, rat and lungfish; 83% in bovine, xenopus, pufferfish; 77% in coelacanth. Rat reactivity reported in scientific literature (PMID: 19467246).
Immunogen	A portion of amino acids 480-530 of human ALAS-1 were used as the immunogen.

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 1-3 ug/ml, Simple Western 1:50, Immunohistochemistry, Immunohistochemistry-Paraffin 5 ug/ml
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in HepG2 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 65 kDa.

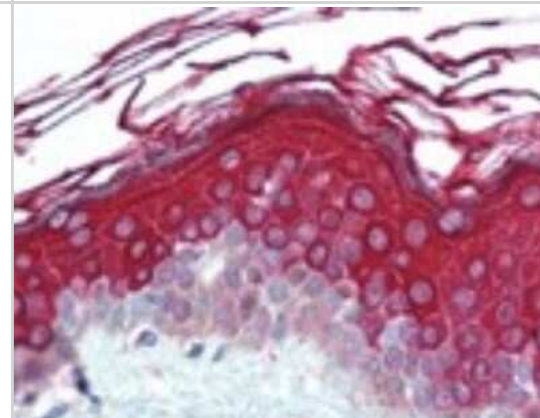


## Images

Western Blot: Alas1 Antibody [NB100-56415] - analysis of HepG2 cell lysate using ALAS1 antibody at 1 ug/ml.



Immunohistochemistry-Paraffin: Alas1 Antibody [NB100-56415] - Staining of human skin at 5 ug/ml. Heat induced antigen retrieval in pH 6.0 citrate buffer was used for unmasking. A biotinylated secondary antibody followed by alkaline phosphatase-streptavidin was and chromogen was used for detection.



Simple Western: Alas1 Antibody [NB100-56415] - Simple Western lane view shows a specific band for Alas1 in 0.5 mg/ml of HepG2 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



## Publications

Ju Y, Mizutani T, Imamichi Y et al. Nuclear receptor 5A (NR5A) family regulates 5-aminolevulinic acid synthase 1 (ALAS1) gene expression in steroidogenic cells. *Endocrinology*. 2012-11-01 [PMID: 23024262] (WB)

Details:

WB: Fig 3L (H295R human adrenocortical carcinoma cells), Fig 3M (Y1 mouse adrenocortical cells, Fig S5C (Y1 cells). IHC (P): Fig 3N-P (rat adrenal gland). Note: The specificity of the ALAS1 IMG-5254A pAb was validated with ALAS1 siRNA by WB in human H295R

Seo YM, Park JI, Jeon MJ et al. Gonadotropin regulation of genes differentially expressed in response to PKCzeta inhibitor during ovulation in the rat. *Life Sci*. 2009-07-17 [PMID: 19467246] (WB, Rat)

Details:

WB: Rat ovarian granulosa cells (data described, but not shown).

Zheng J, Shan Y, Lambrecht RW et al. Differential regulation of human ALAS1 mRNA and protein levels by heme and cobalt protoporphyrin. *Mol Cell Biochem*. 2008-12-01 [PMID: 18719978] (WB, Human)

Details:

WB: Huh-7 human hepatoma cells, Figs 5A, 6, 7. The IMG-5254A ALAS1 pAb detected both precursor (71 kDa) and mature (68 kDa) ALAS1 forms.





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### **Products Related to NB100-56415**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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