

# Product Datasheet

## Cytochrome P450 4A Antibody

### NB300-609

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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**NB300-609****Cytochrome P450 4A Antibody**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide
<b>Purity</b>	Unpurified
<b>Buffer</b>	Whole antisera diluted with PBS
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	1579
<b>Gene Symbol</b>	CYP4A11
<b>Species</b>	Human, Rat, Feline, Rabbit
<b>Reactivity Notes</b>	Cross-reacts with Rabbit, Rat and Cat. Not yet tested in other species.
<b>Specificity/Sensitivity</b>	Detects Cytochrome P450 4A (isoforms 1, 2, & 3) from feline, rabbit and rat tissues. This detects, to a lesser extent, isoforms 4A1 and 4A3.
<b>Immunogen</b>	Synthetic peptide: DPSRFAPDSPRHSLS, corresponding to amino acids 431-445 of Rat Cytochrome P450 4A.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:1500, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/Immunofluorescence 1:10 - 1:500, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:10 - 1:500, Immunohistochemistry-Frozen 1:100
<b>Application Notes</b>	Western blot: use at a dilution of 1/1500. Immunohistochemistry: use at a dilution of 1/100. Not tested in other applications. Optimal dilutions / concentrations should be determined by the end user. By Western blot, this antibody detects an ~50 kDa protein representing P450 4A in rat liver extract. In the same sample, a slightly larger band representing 4A3 is also clearly visible. Immunohistochemical staining of P450 4A in rat brain results in perivascular and surrounding cortex staining. Immunoprecipitation was reported in scientific literature.

## Publications

Marvar PJ et al. High dietary salt reduces the contribution of 20-HETE to arteriolar oxygen responsiveness in skeletal muscle. *Am J Physiol Heart Circ Physiol*;292(3):H1507-15. 2007-03-01 [PMID: 17114243] (WB)

Graham RA et al. In vivo and in vitro induction of cytochrome P450 enzymes in beagle dogs. *Drug Metab Dispos*;30(11):1206-13. 2002-11-01 [PMID: 12386126] (WB)

Ma YH et al. Altered renal P-450 metabolism of arachidonic acid in Dahl salt-sensitive rats. *Am J Physiol*;267(2 Pt 2):R579-89. 1994-08-01 [PMID: 8067471] (WB)

Hagemeyer CE et al. 7-Benzyloxyresorufin-O-dealkylase activity as a marker for measuring cytochrome P450 CYP3A induction in mouse liver. *Anal Biochem*;398(1):104-11. 2010-03-01 [PMID: 19903449] (WB)

Antonio EA et al. Small G proteins in peroxisome biogenesis: the potential involvement of ADP-ribosylation factor 6. *BMC Cell Biol*;10():58. 2009-08-17 [PMID: 19686593] (WB)

Fransen M et al. Potential role for Pex19p in assembly of PTS-receptor docking complexes. *J Biol Chem*;279(13):12615-24. 2004-03-26 [PMID: 14715663] (IP)





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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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