

Datasheet: AHP1254

Description:	GOAT ANTI CHOLESTEROL 24-HYDROXYLASE (C-TERMINAL)
Specificity:	CHOLESTEROL 24-HYDROXYLASE (C-TERMINAL)
Other names:	CYP46
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

RRID AB_2090665

Applications This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1/15000
Immunoprecipitation			▪	
Western Blotting	▪			1/3000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species Human

Product Form Serum - liquid

Antiserum Preparation Antisera to cholesterol 24-hydroxylase (CT) were raised by repeated immunisations of goats with highly purified antigen.

Preservative Stabilisers 0.09% Sodium Azide (NaN₃)

Immunogen Synthetic peptide corresponding to amino acid sequence 254-270 of human cholesterol 24-hydroxylase protein.

External Database Links

UniProt:
[Q9Y6A2](#) [Related reagents](#)

Entrez Gene:

Synonyms	CYP46
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Specificity	<p>Goat anti Cholesterol 24 hydroxylase antibody recognizes cholesterol 24-hydroxylase (CYP46A1), a ~58 kDa member of the Cytochrome P450 family, expressed in the brain. CYP46A1 converts cholesterol into the biologically active oxysterol and 24(S)-hydroxycholesterol, in the first step of the enzymatic degradation of cholesterol in the brain. CYP46A1 is also thought to play a role in the metabolism of neurosteroids and drugs that can cross the blood-brain barrier and are targeted to the central nervous system.</p> <p>P450 enzymes are divided into two groups: steroidogenic and xenobiotic. The latter group is comprised of three families 1, 2 and 3. The xenobiotic p450's are involved in most oxidative drug metabolism.</p>
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Western Blotting	AHP1254 detects a band of approximately 58kDa in human Alzheimer diseased brain lysates.
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References	<ol style="list-style-type: none">1. Pikuleva, I.A. (2006) Cytochrome P450s and cholesterol homeostasis. Pharmacol Ther. 112 (3): 761-73.2. Mast, N. <i>et al.</i> (2003) Broad substrate specificity of human cytochrome P450 46A1 which initiates cholesterol degradation in the brain. Biochemistry. 42 (48): 14284-92.3. Ng, P.S. <i>et al.</i> (2003) Production of inhibitory polyclonal antibodies against cytochrome P450s. Drug Metab Pharmacokinet. 18 (3): 163-72.
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Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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Guarantee	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10081 available at: 10081: https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

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