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

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 (NaN_3)

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:** 10858 CYP46A1 Related reagents
Synonyms	CYP46
RRID	AB_2090665
Specificity	**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. 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.
Western Blotting	AHP1254 detects a band of approximately 58kDa in human Alzheimer diseased brain lysates.
References	1. Pikuleva, I.A. (2006) Cytochrome P450s and cholesterol homeostasis. Pharmacol Ther. 112 (3): 761-73. 2. Mast, N. *et al.* (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. *et al.* (2003) Production of inhibitory polyclonal antibodies against cytochrome P450s. Drug Metab Pharmacokinet. 18 (3): 163-72.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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.
Guarantee	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10081 available at: 10081: https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	**Worldwide**	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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