

Datasheet: AHP622Z

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|----------------------|---------------------------------------|
| Description: | RABBIT ANTI HUMAN CYTOCHROME P450 3A4 |
| Specificity: | CYTOCHROME P450 3A4 |
| Format: | Serum |
| Product Type: | Polyclonal Antibody |
| Isotype: | Polyclonal IgG |
| Quantity: | 50 µl |

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 | | | ▪ | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | ▪ | | | 1/5000 - 1/10000 |
| Functional Assays | ▪ | | | 2-20ul |

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species Human

Product Form Serum - liquid

Antiserum Preparation Antisera to human CYP3A4 were raised by repeated immunisation of rabbits with highly purified antigen.

Preservative Stabilisers None Present

Immunogen Purified human CYP3A4 expressed in *E.Coli*

External Database Links **UniProt:**

Entrez Gene:

[1576](#) CYP3A4 [Related reagents](#)

Synonyms CYP3A3

RRID AB_2090332

Specificity **Rabbit anti Human cytochrome p450 3A4 antibody** recognizes human cytochrome p450 3A4 (CYP3A4). 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. Work in this area is ongoing but studies suggest that all known drug metabolism is mediated by family members: CYP3A, CYP2D6, CYP1A2, CYP2C9/10, CYP2C19 and CYP2E1. Rabbit anti Human cytochrome p450 3A4 antibody is a neutralizing antibody, a specific and potent inhibitor of CYP3A4.

References

1. Vranová, I. *et al.* (2013) The Anticancer Drug Ellipticine Induces Cytochromes P450 1A1, 1A2 and 3A, Cytochrome b5 and NADPH:Cytochrome P450 Oxidoreductase in Rat Liver, Kidney and Lung [Int. J. Electrochem. Sci., 8 \(2013\) 1586 - 97](#)
2. Ng, P.S. *et al.* (2003) Production of inhibitory polyclonal antibodies against cytochrome P450s. [Drug Metab Pharmacokinet. 18 \(3\): 163-72.](#)
3. Song, Z. *et al.* (2009) Efficient generation of hepatocyte-like cells from human induced pluripotent stem cells. [Cell Res. 19: 1233-42.](#)
4. Schmidt, A. *et al.* (2011) Differential expression of glutamine synthetase and cytochrome P450 isoforms in human hepatoblastoma. [Toxicology. 281 \(1-3\): 7-14.](#)
5. Hřebačková, J. *et al.* (2009) Histone deacetylase inhibitors valproate and trichostatin A are toxic to neuroblastoma cells and modulate cytochrome P450 1A1, 1B1 and 3A4 expression in these cells. [Interdiscip Toxicol. 2: 205-10.](#)
6. Poljaková, J. *et al.* (2013) Electrochemical Determination of Enzymes Metabolizing Ellipticine in Thyroid Cancer Cells - a Tool to Explain the Mechanism of Ellipticine Toxicity to these Cells [Int. J. Electrochem. Sci. 8: 1573 - 85](#)
7. Strick-Marchand, H. *et al.* (2015) A novel mouse model for stable engraftment of a human immune system and human hepatocytes. [PLoS One. 10 \(3\): e0119820.](#)

Further Reading 1. Werck-Reichhart, D. & Feyereisen, R. (2000) Cytochromes P450: a success story. [Genome Biol. 1 \(6\): REVIEWS3003.](#)

Storage Store at -20°C. Ship at +4°C.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. 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 #10194 available at:
10194: <https://www.bio-rad-antibodies.com/uploads/MSDS/10194.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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| 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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