Datasheet: AHP622Z

**Description:** RABBIT ANTI HUMAN CYTOCHROME P450 3A4

**Specificity:** CYTOCHROME P450 3A4

**Format:** Serum

**Product Type:** Polyclonal Antibody

**Isotype:** Polyclonal IgG

**Quantity:** 50 µl

### 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](http://www.bio-rad-antibodies.com/protocols).

<table>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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<td>1/5000 - 1/10000</td>
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<tr>
<td>Functional Assays</td>
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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:**

[P08684](https://www.uniprot.org/uniprot/P08684) Related reagents

**Entrez Gene:**

[1576](https://www.ncbi.nlm.nih.gov/gene/1576) CYP3A4 Related reagents
Synonyms

CYP3A3

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

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

Further Reading


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


Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) FITC
Goat Anti Rabbit IgG (H/L) (STAR124...) HRP
Recommended Useful Reagents

**TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)**

<table>
<thead>
<tr>
<th>North &amp; South America</th>
<th>Tel: +1 800 265 7376</th>
<th>Worldwide</th>
<th>Tel: +44 (0)1865 852 700</th>
<th>Europe</th>
<th>Tel: +49 (0) 89 8090 95 21</th>
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<tr>
<td>Fax: +1 919 878 3751</td>
<td>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a></td>
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