

## Datasheet: VPA00132KT

<b>Description:</b>	CYTOCHROME B245 ANTIBODY WITH CONTROL LYSATE
<b>Specificity:</b>	CYTOCHROME B245
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Polyclonal
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	2 Westerns

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

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Preparation

20µl Goat polyclonal antibody purified by affinity chromatography

### Buffer Solution

TRIS buffered saline

### Preservative Stabilisers

0.02% Sodium Azide (NaN<sub>3</sub>) 0.5 % BSA

### Immunogen

Peptide with the sequence C-SYLNFKRIKPNP, from the internal region of the protein

sequence.

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**External Database****Links****UniProt:**[P04839](#)[Related reagents](#)**Entrez Gene:**[1536](#)

CYBB

[Related reagents](#)

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**Synonyms**

NOX2

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**Specificity**

**Goat anti Human cytochrome B245 antibody** recognizes the cytochrome B245 heavy chain, also known as CGD91-phox, cytochrome b558 subunit beta, heme-binding membrane glycoprotein gp91phox, NADPH oxidase 2, neutrophil cytochrome b 91 kDa polypeptide, superoxide-generating NADPH oxidase heavy chain subunit, gp91-1, gp91-phox and p22 phagocyte B-cytochrome.

Cytochrome B245 is composed of cytochrome B alpha (CYBA) and beta (CYBB) chains. It has been proposed as a primary component of the microbicidal oxidase system of phagocytes. CYBB deficiency is one of five described biochemical defects associated with chronic granulomatous disease (CGD). In this disorder, there is decreased activity of phagocyte NADPH oxidase; neutrophils are able to phagocytize bacteria but cannot kill them in the phagocytic vacuoles. The cause of the killing defect is an inability to increase the cell's respiration and consequent failure to deliver activated oxygen into the phagocytic vacuole (provided by RefSeq, Jul 2008).

Goat anti Human cytochrome B245 antibody detects a band of 80 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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**Western Blotting**

Anti cytochrome B245 detects a band of approximately 80 kDa in HeLa cell lysates.

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**Instructions For Use**

Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

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**Lysate Composition**

400µg HeLa lysate lyophilized in RIPA buffer.

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**Lysate Reconstitution**

- If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.

- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.

Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

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**Storage**

Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

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**Guarantee** As supplied, 12 months from date of despatch.

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**Acknowledgements** PrecisionAb™ is a trademark of Bio-Rad Laboratories.

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**Health And Safety Information** Material Safety Datasheet documentation #10058 #10561 available at:  
Antibody (10058): <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>  
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...) [HRP](#)

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