

Datasheet: VPA00132

**BATCH NUMBER 161214**

<b>Description:</b>	GOAT ANTI CYTOCHROME B245
<b>Specificity:</b>	CYTOCHROME B245
<b>Other names:</b>	NOX2
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Polyclonal
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	100 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](http://www.bio-rad-antibodies.com/protocols).

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

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** 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 dependent on sample type.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Rat <b>N.B.</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.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Goat polyclonal antibody purified by affinity chromatography.
<b>Buffer Solution</b>	TRIS buffered saline
<b>Preservative</b>	0.02% Sodium Azide (NaN <sub>3</sub> ) 0.5 % BSA

## Stabilisers

---

**Immunogen** Peptide with the sequence C-SYLNFKARKRIKNP, from the internal region of the protein sequence.

---

## External Database

### Links

#### UniProt:

[P04839](#)

[Related reagents](#)

#### Entrez Gene:

[1536](#)

CYBB

[Related reagents](#)

---

**Synonyms** NOX2

---

**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.

---

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

---

**References** 1. Waghela, B.N. *et al.* (2021) Upregulation of NOX-2 and Nrf-2 Promotes 5-Fluorouracil Resistance of Human Colon Carcinoma (HCT-116) Cells. [Biochemistry \(Mosc\). 86 \(3\): 262-74.](#)

---

**Storage** Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

---

**Guarantee** 12 months from date of despatch

---

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

---

**Health And Safety Information** Material Safety Datasheet documentation #10058 available at: <https://www.bio-rad-antibodies.com/SDS/VPA00132> Antibody (10058)

---

**Regulatory** For research purposes only

---

---

## Related Products

### Recommended Secondary Antibodies

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

'M370521:200529'

Printed on 13 Aug 2023

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)