

Datasheet: VPA00132

Description:	GOAT ANTI CYTOCHROME B245
Specificity:	CYTOCHROME B245
Other names:	NOX2
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

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

Goat polyclonal antibody purified by affinity chromatography.

Buffer Solution

TRIS buffered saline.

Preservative Stabilisers

0.02% Sodium Azide (NaN₃) 0.5 % BSA

Immunogen	Peptide with the sequence C-SYLNFKRIKKNP, from the internal region of the protein sequence.
External Database Links	<p>UniProt: P04839 Related reagents</p> <p>Entrez Gene: 1536 CYBB Related reagents</p>
Synonyms	NOX2
Specificity	<p>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.</p> <p>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).</p> <p>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.</p>
Western Blotting	Anti cytochrome B245 detects a band of approximately 80 kDa in HeLa cell lysates.
References	1. Waghela, B.N. <i>et al.</i> (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](#)

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

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