

## Datasheet

### CYBB polyclonal antibody

**Catalog Number:** PAB14389

**Regulation Status:** For research use only (RUO)

**Product Description:** Goat polyclonal antibody raised against synthetic peptide of CYBB.

**Immunogen:** A synthetic peptide corresponding to human CYBB.

**Sequence:** C-SYLNFAKRIKNP

**Host:** Goat

**Theoretical MW (kDa):** 65.3

**Reactivity:** Human

**Applications:** ELISA, WB-Ce

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Specificity:** Approx 85 KDa band observed in human peripheral blood mononucleocytes ysates (calculated MW of 65.3KDa according to NP\_000388.2). The observed molecular weight corresponds to earlier findings in literature with different antibodies (Teahan et al, Nature. 1987 Jun 25-Jul 1;327(6124):720-1. PMID: 3600769).

**Form:** Liquid

**Purification:** Antigen affinity purification

**Concentration:** 0.5 mg/mL

**Recommend Usage:** ELISA (1:2000)

Western Blot (0.03-0.1 ug/mL)

The optimal working dilution should be determined by the end user.

**Storage Buffer:** In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)

**Storage Instruction:** Store at -20°C.

Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 1536

**Gene Symbol:** CYBB

**Gene Alias:** CGD, GP91-1, GP91-PHOX, GP91PHOX, NOX2, p91-PHOX

**Gene Summary:** Cytochrome b (-245) is composed of cytochrome b alpha (CYBA) and beta (CYBB) chain. 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]

#### References:

1. Constitutive activation of SHP2 protein tyrosine phosphatase inhibits ICSBP-induced transcription of the gene encoding gp91PHOX during myeloid differentiation. Zhu C, Lindsey S, Konieczna I, Eklund EA. J Leukoc Biol. 2008 Mar;83(3):680-91. Epub 2007 Dec 18.