



CYBA peptide (DAG-P0402)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen Description | Cytochrome b is comprised of a light chain (alpha) and a heavy chain (beta). This gene encodes the light, alpha subunit which has been proposed as a primary component of the microbicidal oxidase system of phagocytes. Mutations in this gene are associated with autosomal recessive chronic granulomatous disease (CGD), that is characterized by the failure of activated phagocytes to generate superoxide, which is important for the microbicidal activity of these cells. [provided by RefSeq, Jul 2008] |
| Purity | 70 - 90% by HPLC. |
| Conjugate | Unconjugated |
| Format | Liquid |
| Preservative | None |
| Storage | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request. |

GENE INFORMATION

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| Gene Name | CYBA cytochrome b-245, alpha polypeptide [Homo sapiens (human)] |
| Official Symbol | CYBA |
| Synonyms | CYBA; cytochrome b-245, alpha polypeptide; p22-PHOX; cytochrome b-245 light chain; p22phox; cytochrome b light chain; p22 phagocyte B-cytochrome; cytochrome b(558) alpha chain; cytochrome b558 subunit alpha; cytochrome b(558) alpha-subunit; cytochrome b, alpha polypeptide; flavocytochrome b-558 alpha polypeptide; neutrophil cytochrome b 22 kDa polypeptide; superoxide-generating NADPH oxidase light chain subunit; |
| Entrez Gene ID | 1535 |

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| mRNA Refseq | NM_000101.3 |
| Protein Refseq | NP_000092.2 |
| UniProt ID | B4DT46 |
| Chromosome Location | 16q24 |
| Pathway | Adaptive Immune System, organism-specific biosystem; Antigen processing-Cross presentation, organism-specific biosystem; Class I MHC mediated antigen processing and presentation, organism-specific biosystem; Cross-presentation of particulate exogenous antigens (phagosomes), organism-specific biosystem; Disease, organism-specific biosystem; Immune System, organism-specific biosystem; Latent infection of Homo sapiens with Mycobacterium tuberculosis, organism-specific biosystem; Leishmaniasis, orga |
| Function | SH3 domain binding; electron carrier activity; electron carrier activity; heme binding; metal ion binding; protein binding; protein heterodimerization activity; contributes_to superoxide-generating NADPH oxidase activity; |