

# Anti-Human Stefin B DyLight® 550 conjugated CSTB Antibody(monoclonal, 2B6)

Catalog # ABO14817

## Product Information

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| <b>Application</b>       | FC                                                                                                                                                    |
| <b>Primary Accession</b> | <a href="#">P04080</a>                                                                                                                                |
| <b>Host</b>              | Mouse                                                                                                                                                 |
| <b>Isotype</b>           | Mouse IgG1                                                                                                                                            |
| <b>Reactivity</b>        | Human                                                                                                                                                 |
| <b>Clonality</b>         | Monoclonal                                                                                                                                            |
| <b>Format</b>            | Liquid                                                                                                                                                |
| <b>Description</b>       | Anti-Human Stefin B DyLight® 550 conjugated CSTB Antibody (monoclonal, 2B6) . Tested in Flow Cytometry applications. This antibody reacts with Human. |

## Additional Information

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| <b>Gene ID</b>                         | 1476                                                                                                                                                                                  |
| <b>Other Names</b>                     | Cystatin-B, CPI-B, Liver thiol proteinase inhibitor, Stefin-B, CSTB, CST6, STFB                                                                                                       |
| <b>Calculated MW</b>                   | 11140                                                                                                                                                                                 |
| <b>Application Details</b>             | Flow Cytometry, 1-3 µg/1x10 <sup>6</sup> cells                                                                                                                                        |
| <b>Subcellular Localization</b>        | Cytoplasm                                                                                                                                                                             |
| <b>Source</b>                          | Eukaryota                                                                                                                                                                             |
| <b>Contents</b>                        | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .                                                                          |
| <b>Clone Names</b><br><b>Immunogen</b> | Clone: 2B6<br>E. coli-derived human Stefin B recombinant protein (Position: M1-F98). Human Stefin B shares 78.6 % amino acid (aa) sequence identity with both mouse and rat Stefin B. |
| <b>Cross Reactivity</b>                | No cross-reactivity with other proteins.                                                                                                                                              |
| <b>Storage</b>                         | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.                                                                                  |

## Protein Information

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| <b>Name</b> | CSTB |
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| <b>Synonyms</b>          | CST6, STFB                                                                                                          |
| <b>Function</b>          | This is an intracellular thiol proteinase inhibitor. Tightly binding reversible inhibitor of cathepsins L, H and B. |
| <b>Cellular Location</b> | Cytoplasm. Nucleus                                                                                                  |

## Background

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Cystatin B (CSTB), also called STFB, is a small protein that is a member of the superfamily of cysteine protease inhibitors. It has been isolated from human spleen and liver and its amino acid sequence has been fully determined. The cystatin B gene is located on 21q22.3. It is widely distributed and is localized mostly intracellularly, but has been found extracellularly. The protein is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins L, H and B. Its role is thought to be as a protector against the proteinases leaking from lysosomes. A cystatin B multiprotein complex might have a specific cerebellar function, and that the loss of this function might contribute to the etiopathogenesis of EPM1. Upon differentiation to myotubes, CSTB becomes excluded from the nucleus and lysosomes, suggesting that the subcellular distribution of CSTB is dependent on the differentiation status of the cell.

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