# Product Datasheet

## Cytochrome c Antibody (rCYCS/1010) [DyLight 488]

## NBP3-08588G

Unit Size: 100 ul

Store at 4C in the dark.

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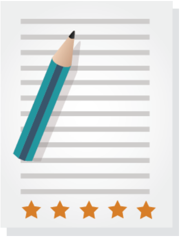

# NBP3-08588G

Cytochrome c Antibody (rCYCS/1010) [DyLight 488]

## Product Information

| | |
|---|---|
| **Unit Size** | 100 ul |
| **Concentration** | Please see the vial label for concentration. If unlisted please contact technical services. |
| **Storage** | Store at 4C in the dark. |
| **Clonality** | Monoclonal |
| **Clone** | rCYCS/1010 |
| **Preservative** | 0.05% Sodium Azide |
| **Isotype** | IgG1 Kappa |
| **Conjugate** | DyLight 488 |
| **Purity** | Protein A or G purified |
| **Buffer** | 50mM Sodium Borate |

## Product Description

| | |
|---|---|
| **Host** | Mouse |
| **Gene ID** | 54205 |
| **Gene Symbol** | CYCS |
| **Species** | Human, Mouse, Rat, Amphibian, Canine, Drosophila, Equine, Pigeon |
| **Reactivity Notes** | Frog |
| **Marker** | Mitochondrial Marker |
| **Specificity/Sensitivity** | It recognizes an epitope within amino acids 93-104 of pigeon Cytochrome C, a well-characterized mobile electron transport protein that is essential to energy conversion in all aerobic organisms. In mammalian cells, this highly conserved protein is normally localized to the mitochondrial inter-membrane space. More recent studies have identified cytosolic cytochrome c as a factor necessary for activation of apoptosis. During apoptosis, cytochrome c is trans-located from the mitochondrial membrane to the cytosol, where it is required for activation of caspase-3 (CPP32). Overexpression of Bcl-2 has been shown to prevent the translocation of cytochrome c, thereby blocking the apoptotic process. Overexpression of Bax has been shown to induce the release of cytochrome c and to induce cell death. The release of cytochrome c from the mitochondria is thought to trigger an apoptotic cascade, whereby Apaf-1 binds to Apaf-3 (caspase-9) in a cytochrome c-dependent manner, leading to caspase-9 cleavage of caspase-3. This monoclonal antibody recognizes total cytochrome C which includes both apocytochrome (i.e. cytochrome in the cytosol without heme attached) and holocytochrome (i.e cytochrome in the mitochondria with heme attached). |
| **Immunogen** | Synthetic peptides corresponding to amino acid 1-80, 81-104 and 66-104 of pigeon cytochrome c (Uniprot: P99999) |
| **Notes** | DyLight (R) is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries. |

## Product Application Details

| | |
|---|---|
| **Applications** | Western Blot, Flow Cytometry, Immunohistochemistry-Paraffin |
| **Recommended Dilutions** | Western Blot, Flow Cytometry, Immunohistochemistry-Paraffin |
| **Application Notes** | Optimal dilution of this antibody should be experimentally determined. |

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## Products Related to NBP3-08588G

| | |
|---|---|
| NBP1-43319G-0.5ml | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) [DyLight 488] |
| 210-TA-005 | TNF-alpha [Unconjugated] |
| MCTC0 | Cytochrome c [HRP] |
| AF835 | Caspase-3 Antibody [Unconjugated] - Active |

## Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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