

Product Datasheet

Cytochrome c Antibody (CYCS/3128R) [mFluor Violet 450 SE]

NBP3-08598MFV450

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP3-08598MFV450

Cytochrome c Antibody (CYCS/3128R) [mFluor Violet 450 SE]

| Product Information | |
|-----------------------------|---|
| Unit Size | 0.1 ml |
| Concentration | Please see the vial label for concentration. If unlisted please contact technical services. |
| Storage | Store at 4C in the dark. |
| Clonality | Monoclonal |
| Clone | CYCS/3128R |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG |
| Conjugate | mFluor Violet 450 SE |
| Purity | Protein A or G purified |
| Buffer | 50mM Sodium Borate |
| Product Description | |
| Host | Rabbit |
| 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 | Recombinant full-length human Cytochrome c protein (Uniprot: P99999) |
| Notes | mFluor(TM) is a trademark of AAT Bioquest, Inc. This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet. |
| Product Application Details | |
| Applications | Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin |
| Recommended Dilutions | Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin |



Application Notes

Optimal dilution of this antibody should be experimentally determined.

Images

Cytochrome c Antibody (CYCS/3128R) [mFluor Violet 450 SE] [NBP3-08598MFV450] - Vial of mFluor Violet 450 conjugated antibody. mFluor Violet 450 is optimally excited at 406 nm by the Violet laser (405 nm) and has an emission maximum of 445 nm.



mFluor™ Violet 450

| LASER (nm) | FILTER |
|--------------|--------|
| Violet (405) | 450/45 |

| EXCITATION MAX (nm) | EMISSION MAX (nm) |
|---------------------|-------------------|
| 406 | 445 |



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Products Related to NBP3-08598MFV450

| | |
|-------------|--|
| 210-TA-005 | TNF-alpha [Unconjugated] |
| MCTC0 | Cytochrome c [HRP] |
| AF835 | Caspase-3 Antibody [Unconjugated] - Active |
| NB100-56116 | Caspase-8 Antibody |

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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