

Product datasheet

Anti-Ndufs4 antibody [EPR7831] - BSA and Azide free ab248861

KO VALIDATED Recombinant RabMAb[®]

Overview

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|----------------------------|---|
| Product name | Anti-Ndufs4 antibody [EPR7831] - BSA and Azide free |
| Description | Rabbit monoclonal [EPR7831] to Ndufs4 - BSA and Azide free |
| Host species | Rabbit |
| Tested applications | Suitable for: Flow Cyt, IP, WB, IHC-P Unsuitable for: ICC |
| Species reactivity | Reacts with: Mouse, Rat, Human |
| Immunogen | Synthetic peptide within Human Ndufs4 aa 50-150. The exact sequence is proprietary. |
| General notes | <p>Ab248861 is the carrier-free version of ab139178. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>ab248861 is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm.</p> <p><i>Maxpar[®] is a trademark of Fluidigm Canada Inc.</i></p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>This product is a recombinant rabbit monoclonal antibody.</p> |

Properties

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| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| Storage buffer | Constituent: PBS |
| Purity | Affinity purified |

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|---------------------|------------|
| Clonality | Monoclonal |
| Clone number | EPR7831 |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab248861** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| Flow Cyt | | Use at an assay dependent concentration. |
| IP | | Use at an assay dependent concentration. |
| WB | | Use at an assay dependent concentration. Predicted molecular weight: 20 kDa. |
| IHC-P | | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Use of a HRP/AP polymerized secondary antibody is recommended. |

Application notes Is unsuitable for ICC.

Target

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|-------------------------------|---|
| Function | Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. |
| Involvement in disease | Defects in <i>NDUFS4</i> are a cause of mitochondrial complex I deficiency (MT-C1D) [MIM:252010]. A disorder of the mitochondrial respiratory chain that causes a wide range of clinical disorders, from lethal neonatal disease to adult-onset neurodegenerative disorders. Phenotypes include macrocephaly with progressive leukodystrophy, non-specific encephalopathy, cardiomyopathy, myopathy, liver disease, Leigh syndrome, Leber hereditary optic neuropathy, and some forms of Parkinson disease. |
| Sequence similarities | Belongs to the complex I <i>NDUFS4</i> subunit family. |
| Cellular localization | Mitochondrion inner membrane. |

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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