

ARG22655 anti-5-Methylcytidine antibody [33D3]

Package: 50 µg
Store at: -20°C

Summary

| | |
|---------------------|---|
| Product Description | <p>Mouse Monoclonal antibody [33D3] recognizes 5-Methylcytidine</p> <p>This antibody recognizes 5-MethylCytidine, a modified base found in the DNA of plants and vertebrates. Methylation of DNA is an epigenetic process that stably alters the expression of genes in cells as they divide and differentiate into specific tissues. The resulting change is normally permanent and unidirectional, preventing a cell from reverting to a stem cell or converting into another type of tissue. In cancer biology, DNA hypermethylation is associated with gene silencing while hypomethylation is reported to be associated with disease progression (Sincic & Herceg, 2011). Mouse anti 5-MeCyd antibody, clone 33D3 is specific to the methylated base and has minimal reactivity to non-methylated cytidine or cytosine (Reynaud et al.1992) Mouse anti 5-MeCyd antibody, clone 33D3 has been reported for use in Methylated DNA immunoprecipitation (MeDIP) (Ponteset al. 2007).</p> |
| Tested Reactivity | Other |
| Tested Application | ELISA, FACS, ICC/IF, IHC-Fr, IHC-P, IP, WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | 33D3 |
| Isotype | IgG1 |
| Target Name | 5-Methylcytidine |
| Species | Others |
| Conjugation | Un-conjugated |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|-----------------|
| | ELISA | Assay-dependent |
| | FACS | Assay-dependent |
| | ICC/IF | Assay-dependent |
| | IHC-Fr | Assay-dependent |
| | IHC-P | Assay-dependent |
| | IP | Assay-dependent |
| | WB | Assay-dependent |
| Application Note | <p>FACS: Use 10 µl of the suggested working dilution to label 10⁶ cells in 100 µl.</p> <p>IHC-P: Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0)</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p> | |

Properties

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|---------------------|--|
| Form | Liquid |
| Purification | Unpurified. |
| Buffer | PBS and 0.01% Thiomersal. |
| Preservative | 0.01% Thiomersal |
| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |