

ARG22655 anti-5-Methylcytidine antibody [33D3]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [33D3] recognizes 5-Methylcytidine 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).
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
FACS: Use 10 µl of the suggested working dilution to label 10⁶ cells in 100 µl.
IHC-P: Antigen Retrieval: Boil tissue section in Sodium citrate buffer (pH 6.0)
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

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.