

PRODUCT INFORMATION

Monoclonal Antibody to O²-Ethyl-Deoxythymidine (EM 4-1)

Cat. No. SQM015.1 (200 µg)

- Detects a specific mutagenic DNA modification induced by several exogenous and endogenous carcinogens e.g. food, smoking, cancer therapeutics, environmental carcinogens, workplace carcinogens.
- Usefull for molecular epidemiology due to accumulation of the O²-ethyldeoxythymidine-adduct in the cellular DNA following carcinogen exposure
- Pre-and intratherapeutic dosimetry of exposure to anticancer agents
- Basic research of molecular mechanisms of carcinogenesis
- Mutagenicity testing of substances



Product Data

Catalogue No: SQM015.1

Product Name: EM 4-1, Monoclonal Antibody to O²-ethyl-deoxythymidine

Product Size: 200 µg

Tested with: human, mouse, rat

Clone: EM 4-1
Isotype: mouse IgG1
Formulation: lyophilized

Reconstitution and Store lyophilized product at -20°C until opened. After opening, restore with 1 ml

Storage: PBS/NaN₃/1% BSA to a final concentration of 200 µg/ml. After dilution, do not use for more

than one day. For extended storage after reconstitution we suggest aliquoting and storage

at -20°C

Immunogen: O²-ethyl-2-deoxythymidine

Purification: The antibody was isolated from supernatant by Protein G affinity purification

Tested Application: Competitive Radioimmunoassay

Immunocytochemistry: 2.0 – 5.0 μg/ml PBS containing 3 % bovine serum albumin

Specifity of EM 4-1, measured by the competitive radioimmunoassay (RIA)

Affinity constant for O ² -ethyl-2-deoxythymidine	1.6 x 10 ⁹ (I/MoI)
RIA-detection limit for	(pMoI)
O ² -EtdThd	0.19
O ² -EtdThy-ribosid	0.28
O ² -MedThd	1.0
O ² -BudThd	0.19
O ⁴ -EtdThd	9621
O ⁶ -EtdGuo	1.4x10 ⁴
5-MedCyd	1.4x10 ⁵
dThd	7.8x10 ⁴
dCyd	1.4x10 ⁵
DNA-Hydrolysate	2.3x10 ⁵

Last updated: 12/2020