Human MCM7 Alexa Fluor® 488-conjugated Antibody

Monoclonal Rabbit IgG Clone # 2068B
Catalog Number: IC9217G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MCM7 in direct ELISAs and Western blots.
Source	Monoclonal Rabbit IgG Clone # 2068B
Purification	Protein A or G purified from cell culture supernatant
Immunogen	*E. coli*-derived recombinant human MCM7 Gly188-Ala328 Accession # P33993
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 cells	HeLa human cervical epithelial carcinoma cell line fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012)

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** • 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

MCM7/minichromosome maintenance complex component 7, is a highly conserved mini-chromosome maintenance protein, with ATP binding, DNA helicase activity and single-stranded DNA binding. MCM7 forms a hexameric protein complex with MCM2, 4 and 6 proteins that has DNA helicase activity essential for the initiation of gene replication. MCM7 also binds to RAD17 to mediate ATR recruitment to damaged DNA. MCM7 expression is repressed in quiescent cells but induced in late G1 to S phase by growth factor stimulation. It is up-regulated in many cancers including colorectal , T cell lymphomas, glioblastoma, and has prognostic value for hepatocellular carcinoma and gastric adenocarcinoma.

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