Human HIST3H3
Alexa Fluor® 594-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2128A
Catalog Number: IC9448T
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HIST3H3 in Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2128A
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human HIST3H3 synthetic peptide
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *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 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

Histones are alkaline proteins which organize nuclear DNA into nucleosomes. Histone H3 is one of four core histones, which exist as dimers to form an octameric histone core. Epigenetic modification of the exposed histone tails by methylation or acetylation is known to regulate transcription in various ways and is known to affect the etiology of a variety of cancers and developmental defects. Methylation by methyltranserases mediates transcriptional activation (SET1, Chd1), elongation (MLL, WDR5) or silencing (SET7/9, JMJD2A). Expression of H3K4 methyltransferases have been associated with solid tumors such as prostate, ovary, squamous cell carcinoma, hepatocellular carcinoma and cancers of the blood, including T-cell acute lymphoblastic leukemia, acute myeloid leukemia, acute lymphoblastic leukemia, and others.

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