

Anti-MKI67 Antibody (2H479)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2H479
Purification:	Affinity-chromatography

Applications

1. IHC image of TMAH-00759 diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.65% DAB.

Verified Activity: 2. Overlay Peak curve showing Hela cells stained with TMAH-00759 (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody ($1\mu\text{g}/1*10^6$ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG (H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG ($1\mu\text{g}/1*10^6$ cells) used under the same conditions. Acquisition of >10,000 events was performed.

Application: ELISA,FCM,IHC

Recommended IHC:1:50-1:200; FCM:1:50-1:200.

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human MKI67
Antigen Species:	Human
Gene ID:	4288
Uniprot ID:	P46013
Biology Area:	Neuroscience, Cancer, Cell biology, Tags & Cell Markers

Research Background

Required to maintain individual mitotic chromosomes dispersed in the cytoplasm following nuclear envelope disassembly. Associates with the surface of the mitotic chromosome, the perichromosomal layer, and covers a substantial fraction of the chromosome surface. Prevents chromosomes from collapsing into a single chromatin mass by forming a steric and electrostatic charge barrier: the protein has a high net electrical charge and acts as a

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surfactant, dispersing chromosomes and enabling independent chromosome motility. Binds DNA, with a preference for supercoiled DNA and AT-rich DNA. Does not contribute to the internal structure of mitotic chromosomes. May play a role in chromatin organization. It is however unclear whether it plays a direct role in chromatin organization or whether it is an indirect consequence of its function in maintaining mitotic chromosomes dispersed (Probable).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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