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#9129

Ki-67 (D3B5) Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IF-F, IF-IC, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P46013	Entrez-Gene Id: 4288
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Product Usage Information

Application

Immunofluorescence (Frozen)
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:400 - 1:800
1:400 - 1:800
1:400 - 1:1600

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #34330.

Specificity/Sensitivity

Ki-67 (D3B5) Rabbit mAb recognizes endogenous levels of total Ki-67 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant protein fragment corresponding to residues near the central region of human Ki-67 protein.

Background

Ki-67, named after the location where it was discovered (Kiel University, Germany), is a nuclear nonhistone protein (1) that is universally expressed among proliferating cells and absent in quiescent cells (2). Ki-67 detects proliferating cells in G1, S, G2, and mitosis, but not in the G0 resting phase. Research studies have shown that high levels of Ki-67 are associated with poorer breast cancer survival (3). Research studies have explored the use of Ki-67, along with other markers, as potential prognostic or predictive markers in breast cancer and other malignant diseases (4).

Background References

- Gerdes, J. et al. (1983) *Int J Cancer* 31, 13-20.
- Weigel, M.T. and Dowsett, M. (2010) *Endocr Relat Cancer* 17, R245-62.
- Jones, R.L. et al. (2009) *Breast Cancer Res Treat* 116, 53-68.
- Yerushalmi, R. et al. (2010) *Lancet Oncol* 11, 174-83.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IF-F: Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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